Form 3160-3 (June 2015)

UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

10/07/2020 RECEIVED

FORM APPROVED OMB No. 1004-0137 Expires: January 31, 2018

| 5. | Lease | Serial No. | |
|----|-------|------------|--|

NMNM0000587

APPLICATION FOR PERMIT TO DRILL OR REENTER

| APPLICATION FOR PERMIT TO D | RILL OR | REENTER | | 6. If Indian, Allotee | or Tribe Na | me |
|--|---------------|--|--------------|-----------------------------|----------------|------------------|
| | | | | | | |
| a. Type of work: | EENTER | | | 7. If Unit or CA Agree | | |
| lb. Type of Well: | ther | | | 8. Lease Name and V | | 2X |
| lc. Type of Completion: Hydraulic Fracturing | ngle Zone | Multiple Zone | | BELL LAKE UNIT | | |
| | | 1 | | | 316707 |] |
| | | | | 428H | | |
| 2. Name of Operator KAISER FRANCIS OIL COMPANY [12361] | | | | 9. API Well No. | -025-47 | 7854 |
| Ba. Address | 3b. Phone | No. (include area cod | e) | 10. Field and Pool, o | | |
| 6733 S. Yale Ave., Tulsa, OK 74121 | (918) 491- | -0000 | | OJO CHISO/WOLF | CAMP, S | OUTHWEST |
| 4. Location of Well (Report location clearly and in accordance v | vith any Stat | e requirements.*) | | 11. Sec., T. R. M. or | | irvey or Area |
| At surface NWSE / 2130 FSL / 2575 FEL / LAT 32.332 | 2411 / LON | IG -103.5090466 | | SEC 6/T23S/R34E/ | /NMP | |
| At proposed prod. zone NWNE / 330 FNL / 2290 FEL / L | AT 32.3545 | 5111 / LONG -103.5 | 08099 | | | |
| 4. Distance in miles and direction from nearest town or post offi 20 miles | ce* | | | 12. County or Parish LEA | I . | 3. State |
| 5. Distance from proposed* 65 feet | 16. No of a | acres in lease | 17. Spaci | ng Unit dedicated to th | is well | |
| location to nearest broperty or lease line, ft. | 634.55 | | 480.0 | | | |
| (Also to nearest drig. unit line, if any) | 30 110 | | | | | |
| 8. Distance from proposed location* | 19. Propos | ed Depth | 20. BLM | /BIA Bond No. in file | | |
| to nearest well, drilling, completed, applied for, on this lease, ft. | 11822 fee | t / 19791 feet | FED: W | YB000055 | | |
| 21. Elevations (Show whether DF, KDB, RT, GL, etc.) | 22. Approx | ximate date work will | start* | 23. Estimated duration | on | |
| 3477 feet | 01/01/202 | 0 | | 40 days | | |
| | 24. Atta | chments | | | | |
| The following, completed in accordance with the requirements of as applicable) | Onshore Oi | l and Gas Order No. 1 | , and the H | Hydraulic Fracturing ru | le per 43 C | FR 3162.3-3 |
| . Well plat certified by a registered surveyor. | | 4. Bond to cover th | e operation | ns unless covered by an | existing bo | ond on file (see |
| 2. A Drilling Plan. | | Item 20 above). | • | , | S | ` |
| 3. A Surface Use Plan (if the location is on National Forest System | | | | rmation and/or plans as | mari ha magu | rooted by the |
| SUPO must be filed with the appropriate Forest Service Office |)/ | BLM. | becine iinoi | imation and/or plans as | may be requ | iested by the |
| 25. Signature | Nam | e (Printed/Typed) | | | Date | |
| (Electronic Submission) | STO | RMI DAVIS / Ph: (9 | 18) 491-0 | 0000 | 11/01/201 | 19 |
| Fitle S | | | | | | |
| Regulatory Analyst | 127 | (D. 1/77 1) | | T | D. (| |
| Approved by (Signature) (Electronic Submission) | I | e (Printed/Typed) / Layton / Ph: (575) | 234-5959 | | Date 09/29/202 | 20 |
| Title | Offic | ` ' | 201 0000 | | | |
| Assistant Field Manager Lands & Minerals | | sbad Field Office | | | | |
| Application approval does not warrant or certify that the applican applicant to conduct operations thereon. Conditions of approval, if any, are attached. | t holds legal | or equitable title to the | nose rights | in the subject lease wh | ich would | entitle the |
| | | | | | | |

GCP Rec 10/07/2020

APPROVED WITH CONDITIONS **Approval Date: 09/29/2020**

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency

of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.



SL

*(Instructions on page 2)

INSTRUCTIONS

GENERAL: This form is designed for submitting proposals to perform certain well operations, as indicated on Federal and Indian lands and leases for action by appropriate Federal agencies, pursuant to applicable Federal laws and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local, area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from local Federal offices.

ITEM I: If the proposal is to redrill to the same reservoir at a different subsurface location or to a new reservoir, use this form with appropriate notations. Consult applicable Federal regulations concerning subsequent work proposals or reports on the well.

ITEM 4: Locations on Federal or Indian land should be described in accordance with Federal requirements. Consult local Federal offices for specific instructions.

ITEM 14: Needed only when location of well cannot readily be found by road from the land or lease description. A plat, or plats, separate or on the reverse side, showing the roads to, and the surveyed location of, the wen, and any other required information, should be furnished when required by Federal agency offices.

ITEMS 15 AND 18: If well is to be, or has been directionany drilled, give distances for subsurface location of hole in any present or objective productive zone.

ITEM 22: Consult applicable Federal regulations, or appropriate officials, concerning approval of the proposal before operations are started.

ITEM 24: If the proposal will involve hydraulic fracturing operations, you must comply with 43 CFR 3162.3-3, including providing information about the protection of usable water. Operators should provide the best available information about all formations containing water and their depths. This information could include data and interpretation of resistivity logs run on nearby wells. Information may also be obtained from state or tribal regulatory agencies and from local BLM offices.

NOTICES

The Privacy Act of 1974 and regulation in 43 CFR 2.48(d) provide that you be furnished the following information in connection with information required by this application.

AUTHORITY: 30 U.S.C. 181 et seq., 25 U.S.C. 396; 43 CFR 3160

PRINCIPAL PURPOSES: The information will be used to: (1) process and evaluate your application for a permit to drill a new oil, gas, or service wen or to reenter a plugged and abandoned well; and (2) document, for administrative use, information for the management, disposal and use of National Resource Lands and resources including (a) analyzing your proposal to discover and extract the Federal or Indian resources encountered; (b) reviewing procedures and equipment and the projected impact on the land involved; and (c) evaluating the effects of the proposed operation on the surface and subsurface water and other environmental impacts.

ROUTINE USE: Information from the record and/or the record win be transferred to appropriate Federal, State, and local or foreign agencies, when relevant to civil, criminal or regulatory investigations or prosecution, in connection with congressional inquiries and for regulatory responsibilities.

EFFECT OF NOT PROVIDING INFORMATION: Filing of this application and disclosure of the information is mandatory only if you elect to initiate a drilling or reentry operation on an oil and gas lease.

The Paperwork Reduction Act of 1995 requires us to inform you that:

The BLM conects this information to anow evaluation of the technical, safety, and environmental factors involved with drilling for oil and/or gas on Federal and Indian oil and gas leases. This information will be used to analyze and approve applications. Response to this request is mandatory only if the operator elects to initiate drilling or reentry operations on an oil and gas lease. The BLM would like you to know that you do not have to respond to this or any other Federal agency-sponsored information collection unless it displays a currently valid OMB control number.

BURDEN HOURS STATEMENT: Public reporting burden for this form is estimated to average 8 hours per response, including the time for reviewing instructions, gathering and maintaining data, and completing and reviewing the form. Direct comments regarding the burden estimate or any other aspect of this form to U.S. Department of the Interior, Bureau of Land Management (1004-0137), Bureau Information Conection Clearance Officer (WO-630), 1849 C Street, N.W., Mail Stop 401 LS, Washington, D.C. 20240.



BUREAU OF LAND MANAGEMENT

Well Name: BELL LAKE UNIT NORTH

Application Data Report

APD ID: 10400050265 Submission Date: 11/01/2019

Operator Name: KAISER FRANCIS OIL COMPANY

reflects the most recent changes Well Number: 428H

Well Type: OIL WELL Well Work Type: Drill **Show Final Text**

Highlighted data

Section 1 - General

APD ID: 10400050265 Tie to previous NOS? N Submission Date: 11/01/2019

BLM Office: CARLSBAD User: Stormi Davis Title: Regulatory Analyst

Federal/Indian APD: FED Is the first lease penetrated for production Federal or Indian? FED

Lease number: NMNM0000587 Lease Acres: 634.55

Surface access agreement in place? Allotted? Reservation:

Agreement in place? YES Federal or Indian agreement: FEDERAL

Agreement number: NMNM068292X

Agreement name: BELL LAKE

Keep application confidential? Y

APD Operator: KAISER FRANCIS OIL COMPANY Permitting Agent? YES

Operator letter of designation:

Operator Info

Operator Organization Name: KAISER FRANCIS OIL COMPANY

Operator Address: 6733 S. Yale Ave.

Operator PO Box: PO Box 21468

Operator City: Tulsa State: OK

Operator Phone: (918)491-0000 **Operator Internet Address:**

Section 2 - Well Information

Well in Master Development Plan? NO Master Development Plan name:

Well in Master SUPO? NO Master SUPO name:

Well in Master Drilling Plan? NO Master Drilling Plan name:

Well Name: BELL LAKE UNIT NORTH Well API Number: Well Number: 428H

Field/Pool or Exploratory? Field and Pool Pool Name: WOLFCAMP, Field Name: OJO CHISO

SOUTHWEST

Zip: 74121

Is the proposed well in an area containing other mineral resources? NATURAL GAS,OIL

Page 1 of 3

Well Name: BELL LAKE UNIT NORTH Well Number: 428H

Is the proposed well in an area containing other mineral resources? NATURAL GAS,OIL

Is the proposed well in a Helium production area? N Use Existing Well Pad? N New surface disturbance?

Type of Well Pad: MULTIPLE WELL Multiple Well Pad Name: Number: 9

Well Class: HORIZONTAL NORTH BELL LAKE UNIT
Number of Legs: 1

Well Work Type: Drill
Well Type: OIL WELL
Describe Well Type:

Well sub-Type: EXPLORATORY (WILDCAT)

Describe sub-type:

Reservoir well spacing assigned acres Measurement: 480 Acres

Well plat: BLUN 428H C102 20191029065455.pdf

Pay.gov_20191029073052.pdf

Well work start Date: 01/01/2020 Duration: 40 DAYS

Section 3 - Well Location Table

Survey Type: RECTANGULAR

Describe Survey Type:

Datum: NAD83 Vertical Datum: NAVD88

Survey number: 7002 Reference Datum: GROUND LEVEL

| Wellbore | NS-Foot | NS Indicator | EW-Foot | EW Indicator | Twsp | Range | Section | Aliquot/Lot/Tract | Latitude | Longitude | County | State | Meridian | Lease Type | Lease Number | Elevation | MD | TVD | Will this well produce from this lease? |
|------------------|----------|--------------|----------|--------------|------|-------|---------|-------------------|----------------|----------------------|--------|-------|-------------------|------------|----------------------|---------------|-----------|-----------|--|
| SHL Leg #1 | 213 0 | FSL | 257 5 | FEL | 23S | 34E | 6 | Aliquot NWSE | 32.33224 11 | - 103.5090 466 | LEA | | NEW MEXI CO | F | NMNM 000124 4A | 347 7 | 0 | 0 | N |
| KOP Leg #1 | 213 0 | FSL | 257 5 | FEL | 23S | 34E | 6 | Aliquot NWSE | 32.33224 11 | - 103.5090 466 | LEA | | NEW MEXI CO | F | NMNM 000124 4A | - 749 8 | 109 75 | 109 75 | N |

Well Name: BELL LAKE UNIT NORTH Well Number: 428H

| Wellbore | NS-Foot | NS Indicator | EW-Foot | EW Indicator | Twsp | Range | Section | Aliquot/Lot/Tract | Latitude | Longitude | County | State | Meridian | Lease Type | Lease Number | Elevation | MD | TVD | Will this well produce from this lease? |
|--------------------|----------|--------------|----------|--------------|------|-------|---------|-------------------|----------------|----------------------|--------|-------------------|-------------------|------------|----------------------|---------------|-----------|-----------|--|
| PPP Leg #1-1 | 264 0 | FNL | 220 0 | FEL | 23S | 34E | 6 | Aliquot SWNE | 32.33364 62 | - 103.5078 348 | LEA | NEW MEXI CO | • • • • • • | F | NMNM 000058 7 | - 834 5 | 122 40 | 118 22 | Y |
| PPP Leg #1-2 | 260 0 | FNL | 220 0 | FEL | 23S | 34E | 6 | | 32.33375 7 | - 103.5078 328 | LEA | NEW MEXI CO | NEW MEXI CO | F | NMLC0 070544 A | | 122 40 | 118 22 | Y |
| PPP Leg #1-3 | 0 | FSL | 225 0 | FEL | 22S | 34E | 31 | Aliquot SWSE | 32.34090 26 | - 103.5079 243 | LEA | NEW MEXI CO | | F | NMLC0 070544 B | | 148 40 | 118 22 | Y |
| PPP Leg #1-4 | 264 0 | FNL | 229 0 | FEL | 23S | 34E | 6 | Aliquot SENW | 32.34815 88 | - 103.5080 171 | LEA | NEW MEXI CO | NEW MEXI CO | F | NMLC0 070544 A | | 174 80 | 118 22 | Y |
| EXIT Leg #1 | 330 | FNL | 229 0 | FEL | 22S | 34E | 31 | Aliquot NWNE | 32.35451 11 | - 103.5080 99 | LEA | NEW MEXI CO | | F | NMLC0 070544 A | | 197 91 | 118 22 | Υ |
| BHL Leg #1 | 330 | FNL | 229 0 | FEL | 22S | 34E | 31 | Aliquot NWNE | 32.35451 11 | - 103.5080 99 | LEA | NEW MEXI CO | NEW MEXI CO | F | NMLC0 070544 A | - 834 5 | 197 91 | 118 22 | Υ |

District I
1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone: (575) 748-1283 Fax: (575) 748-9720
District III
1000 Rio Brazos Road, Aztec, NM 87410
Phone: (505) 334-6178 Fax: (505) 334-6170
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

Phone: (505) 476-3460 Fax: (505) 476-3462

¹ API Number

State of New Mexico Energy, Minerals & Natural Resources Department OIL CONSERVATION DIVISION 1220 South St. Francis Dr.

Form C-102
Revised August 1, 2011
Submit one copy to appropriate
District Office

Santa Fe, NM 87505

Pool Name

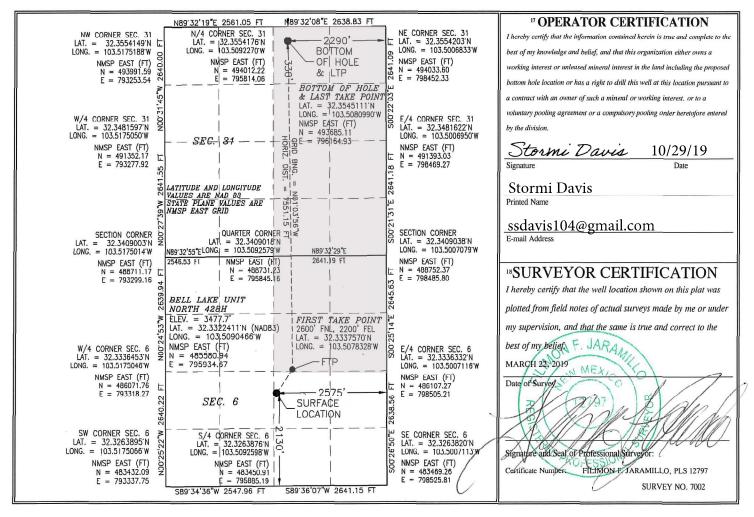
WELL LOCATION AND ACREAGE DEDICATION PLAT

² Pool Code

| 30 |)-025- | | | 98265 | | Ojo | Chiso; Wol | fcamp, S | outhw | vest | |
|---------------|--|----------|---------------------------------------|----------|----------------------|------------------------|---------------|----------|---------|-------------|--|
| 4 Property | Code | | | | 5 Property | Name | | | 6 1 | Well Number | |
| | | | | BE | LL LAKE UN | NIT NORTH | | | | 428H | |
| OGRID 1 | No. | | , , , , , , , , , , , , , , , , , , , | | | ⁹ Elevation | | | | | |
| 12361 | 7 OGRID No. 12361 KAISER-FRANCIS OIL CO. | | | | | | | | | | |
| | | | | | [™] Surface | Location | - | | | | |
| UL or lot no. | Section | Township | Range | Lot Idn | Feet from the | North/South line | Feet from the | East/Wes | st line | County | |
| J | 6 | 23 S | 34 E | | 2130 | SOUTH | 2575 | EAS | T | LEA | |
| | | | D | ottom II | la I agation | If Different En | om Carefood | | | 7 | |

| | | | пB | ottom Ho | ole Location | If Different Fr | om Surface | | |
|--------------------|------------|-----------|-----------------|----------|---------------|------------------|---------------|----------------|--------|
| UL or lot no. | Section | Township | Range | Lot Idn | Feet from the | North/South line | Feet from the | East/West line | County |
| В | 31 | 22 S | 34 E | | 330 | NORTH | 2290 | EAST | LEA |
| 12 Dedicated Acres | s 13 Joint | or Infill | 4 Consolidation | n Code | | | 15 Order No. | | |
| 480 | | | | | | | R-14602 | | |

No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.





Pay.gov Payment Confirmation: BLM Oil and Gas Online Payment

1 message

notification@pay.gov <notification@pay.gov> To: nmogrservices@gmail.com

Tue, Oct 29, 2019 at 7:28 AM



An official email of the United States government



Your payment has been submitted to Pay.gov and the details are below. If you have any questions regarding this payment, please contact BLM OC CBS Customer Service at (303) 236-6795 or BLM OC CBS Customer Service@blm.gov.

Application Name: BLM Oil and Gas Online Payment

Pay.gov Tracking ID: 26L5IRCB Agency Tracking ID: 75872448796

Transaction Type: Sale

Transaction Date: 10/29/2019 09:28:58 AM EDT

Account Holder Name: George B Kaiser

Transaction Amount: \$10,230.00

Card Type: Visa

Card Number: ********0061

Company: Kaiser-Francis Oil Company

APD IDs: 10400050265

Lease Numbers: NMNM0000587

Well Numbers: 428H

Note: You will need your Pay.gov Tracking ID to complete your APD transaction in AFMSS II. Please ensure

you write this number down upon completion of payment.

THIS IS AN AUTOMATED MESSAGE. PLEASE DO NOT REPLY.



Pay.gov is a program of the U.S. Department of the Treasury, Bureau of the Fiscal Service



U.S. Department of the Interior BUREAU OF LAND MANAGEMENT

Well Name: BELL LAKE UNIT NORTH

Drilling Plan Data Report

09/30/2020

APD ID: 10400050265

Submission Date: 11/01/2019

Highlighted data reflects the most

recent changes

Operator Name: KAISER FRANCIS OIL COMPANY

Well Number: 428H

Show Final Text

Well Type: OIL WELL

Well Work Type: Drill

Section 1 - Geologic Formations

| Formation ID | Formation Name | Elevation | True Vertical Depth | Measured Depth | Lithologies | Mineral Resources | Producing Formation |
|--------------|-----------------|-----------|------------------------|-------------------|-----------------|-------------------|---------------------|
| 573957 | | 3477 | 0 | Ö | OTHER : Surface | NONE | N |
| 573958 | RUSTLER | 2305 | 1172 | 1172 | SANDSTONE | NONE | N |
| 573959 | SALADO | 2005 | 1472 | 1472 | SALT | NONE | N |
| 573960 | TOP SALT | 1705 | 1772 | 1772 | SALT | NONE | N |
| 573961 | BASE OF SALT | -1085 | 4562 | 4562 | SALT | NONE | N |
| 573962 | LAMAR | -1370 | 4847 | 4847 | SANDSTONE | NATURAL GAS, OIL | N |
| 573963 | BELL CANYON | -1695 | 5172 | 5172 | SANDSTONE | NATURAL GAS, OIL | N |
| 573964 | CHERRY CANYON | -2645 | 6122 | 6122 | SANDSTONE | NATURAL GAS, OIL | N |
| 573965 | BRUSHY CANYON | -4045 | 7522 | 7522 | SANDSTONE | NATURAL GAS, OIL | N |
| 573966 | BONE SPRING | -5095 | 8572 | 8572 | LIMESTONE | NATURAL GAS, OIL | N |
| 573967 | AVALON SAND | -5262 | 8739 | 8739 | SANDSTONE | NATURAL GAS, OIL | N |
| 573968 | BONE SPRING 1ST | -6095 | 9572 | 9572 | SANDSTONE | NATURAL GAS, OIL | N |
| 573975 | BONE SPRING 2ND | -6600 | 10077 | 10077 | SANDSTONE | NATURAL GAS, OIL | Y |

Section 2 - Blowout Prevention

Well Name: BELL LAKE UNIT NORTH Well Number: 428H

Pressure Rating (PSI): 5M Rating Depth: 13000

Equipment: A 5M system will be installed according to Onshore Order #2 consisting of an Annular Preventer, BOP with two rams, a blind ram and safety valves and appropriate handles located on the rig floor. BOP will be equipped with 2 side outlets (choke side shall be a minimum 3 line, and kill side will be a minimum 2 line). Kill line will be installed with (2) valves and a check valve (2 min) of proper pressure rating for the system. Remote kill line (2 min) will be installed and ran to the outer edge of the substructure and be unobstructed. A manual and hydraulic valve (3 min) will be installed on the choke line, 3 chokes will be used with one being remotely controlled. Fill up line will be installed above the uppermost preventer. Pressure gauge of proper pressure rating will be installed on choke manifold. Upper and lower kelly cocks will be utilized with handles readily available in plain sight. A float sub will be available at all times. All connections subject to well pressure will be flanged, welded, or clamped.

Requesting Variance? YES

Variance request: Flex Hose Variance Multi Bowl Wellhead

Testing Procedure: BOP/BOPE will be tested by an independent service company to 250 psi low and the high pressure indicated above per Onshore Order 2 requirements. The System may be upgraded to a higher pressure but still tested to the working pressure listed in the table above. If the system is upgraded all of the components installed will be functional and tested.

Choke Diagram Attachment:

BLUN 428H Choke Manifold 20191029071654.pdf

BOP Diagram Attachment:

Cactus_Flex_Hose_16C_Certification_20191024113027.pdf
BLUN_428H_MultiBowl_Wellhead_20191029071713.pdf
BLUN_428H_BOP_20191029071722.pdf

Section 3 - Casing

| Casing ID | String Type | Hole Size | Csg Size | Condition | Standard | Tapered String | Top Set MD | Bottom Set MD | Top Set TVD | Bottom Set TVD | Top Set MSL | Bottom Set MSL | Calculated casing length MD | Grade | Weight | Joint Type | Collapse SF | Burst SF | Joint SF Type | Joint SF | Body SF Type | Body SF |
|-----------|------------------|-----------|----------|-----------|----------|----------------|------------|---------------|-------------|----------------|-------------|----------------|-----------------------------|-------------|--------|-----------------------------|-------------|----------|---------------|----------|--------------|---------|
| 1 | SURFACE | 14.7 5 | 10.75 | NEW | API | N | 0 | 1347 | 0 | 1347 | 3477 | 2130 | 1347 | J-55 | 40.5 | ST&C | 2.5 | 5 | DRY | 7.7 | DRY | 11.5 |
| 2 | INTERMED IATE | 9.87 5 | 7.625 | NEW | API | N | 0 | 11072 | 0 | 11072 | | -7595 | 11072 | HCP -110 | 29.7 | LT&C | 1.3 | 1.8 | DRY | 2.3 | DRY | 2.9 |
| 3 | PRODUCTI ON | 6.75 | 5.5 | NEW | API | N | 0 | 19791 | 0 | 11822 | | -8345 | 19791 | P- 110 | | OTHER - USS Eagle SFH | 1.8 | 1.9 | DRY | 2.7 | DRY | 3.1 |

Casing Attachments

Well Name: BELL LAKE UNIT NORTH Well Number: 428H

Casing Attachments

Casing ID: 1 String Type: SURFACE

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

BLUN_428H_Casing_Assumptions_20191029071912.pdf

Casing ID: 2 String Type: INTERMEDIATE

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

BLUN_428H_Casing_Assumptions_20191029071828.pdf

Casing ID: 3 String Type: PRODUCTION

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

5.5_x_20_P110_HP_USS_EAGLE_SFH_Performance_Sheet_20191028120005.pdf

BLUN_428H_Casing_Assumptions_20191029071852.pdf

Well Name: BELL LAKE UNIT NORTH Well Number: 428H

| String Type | Lead/Tail | Stage Tool Depth | Тор МБ | Bottom MD | Quantity(sx) | Yield | Density | Cu Ft | Excess% | Cement type | Additives |
|-------------|-----------|---------------------|--------|-----------|--------------|-------|---------|-------|---------|-------------|--------------|
| SURFACE | Lead | | 0 | 1347 | 649 | 1.72 | 13.5 | 1122 | 50 | ExtendaCem | Poly E Flake |

| INTERMEDIATE | Lead | 0 | 1107 2 | 838 | 2.73 | 11 | 2288 | 25 | NeoCem | Extender |
|--------------|------|------|-----------|-----|------|------|------|----|----------|----------|
| INTERMEDIATE | Tail | 0 | 1107 2 | 572 | 1.2 | 15.6 | 684 | 25 | Halcem | none |
| PRODUCTION | Lead | 9000 | 1979 1 | 850 | 1.22 | 14.5 | 1040 | 15 | VersaCem | Halad |

Section 5 - Circulating Medium

Mud System Type: Closed

Will an air or gas system be Used? NO

Description of the equipment for the circulating system in accordance with Onshore Order #2:

Diagram of the equipment for the circulating system in accordance with Onshore Order #2:

Describe what will be on location to control well or mitigate other conditions: Sufficient mud materials to maintain mud properties and meet minimum lost circulation and weight increase requirements will be kept on location at all time.

Describe the mud monitoring system utilized: PVT/Pason/Visual Monitoring

Circulating Medium Table

| Top Depth | Bottom Depth | Mud Type | Min Weight (lbs/gal) | Max Weight (lbs/gal) | Density (lbs/cu ft) | Gel Strength (lbs/100 sqft) | НА | Viscosity (CP) | Salinity (ppm) | Filtration (cc) | Additional Characteristics |
|-----------|--------------|------------------------|----------------------|----------------------|---------------------|-----------------------------|----|----------------|----------------|-----------------|----------------------------|
| 1107 2 | 1182 2 | OIL-BASED MUD | 10 | 12 | | | | | | | |
| 1347 | 1107 2 | OTHER : Brine | 8.7 | 9 | | | | | | | |
| 0 | 1347 | OTHER : Fresh Water | 8.4 | 9 | | | | | | | |

Well Name: BELL LAKE UNIT NORTH Well Number: 428H

Section 6 - Test, Logging, Coring

List of production tests including testing procedures, equipment and safety measures:

Top of cement on production casing will be determined by calculation.

List of open and cased hole logs run in the well:

DIRECTIONAL SURVEY, GAMMA RAY LOG, MUD LOG/GEOLOGIC LITHOLOGY LOG,

Coring operation description for the well:

None planned

Section 7 - Pressure

Anticipated Bottom Hole Pressure: 5119 Anticipated Surface Pressure: 2518

Anticipated Bottom Hole Temperature(F): 199

Anticipated abnormal pressures, temperatures, or potential geologic hazards? NO

Describe:

Contingency Plans geoharzards description:

Contingency Plans geohazards attachment:

Hydrogen Sulfide drilling operations plan required? YES

Hydrogen sulfide drilling operations plan:

H2S Contingency Plan NM BLUN 20191024114059.pdf

Section 8 - Other Information

Proposed horizontal/directional/multi-lateral plan submission:

BLUN_428H___Directional_Plan_20191029072058.pdf

Other proposed operations facets description:

Gas Capture Plan attached

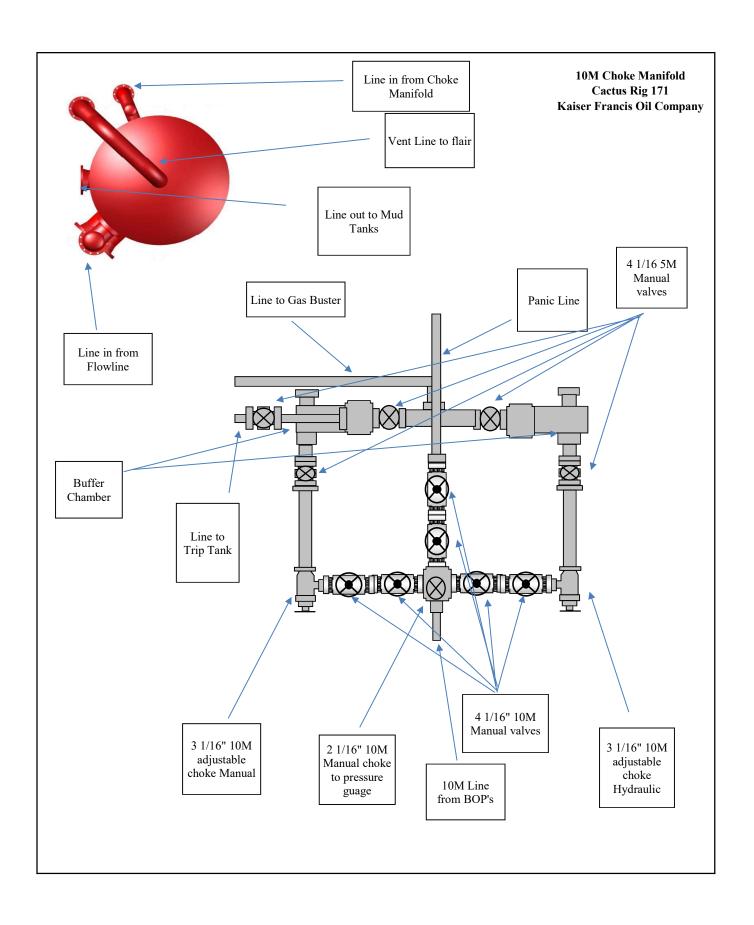
Other proposed operations facets attachment:

Gas_Capture_Plan_BLUN_Pad_9_20191024114127.pdf

Other Variance attachment:

Cactus Flex Hose 16C Certification 20191024114144.pdf





BLUN 428H Casing Assumptions

| Interval Conductor | Length | Casing Size | Weight (#/ft) | Grade | Thread | Condition New | Hole Size | TVD (ft) | Mud Type | Mud Weight Hole Control | Viscosity | Fluid Loss | Anticipated Mud Weight (ppg) | | Collapse (psi) | Burst (psi) | Body Tensile Strength | Joint Tensile Strength | Collapse Safety Factor (Min 1.1) | Burst Safety Factor (Min 1.0) | Body Tensile Safety Factor (Min 1.8) | Joint Tensile Safety Factor (Min 1.8) |
|--------------------|--------|-------------|------------------|---------|---------------|------------------|-----------|----------|----------|-------------------------------|-----------|------------|------------------------------------|------|-------------------|----------------|--------------------------|---------------------------|---|-------------------------------------|--|---|
| Surface | 1347 | 10-3/4" | 40.5 | J-55 | STC | New | 14-3/4" | 1347 | FW | 8.4 - 9.0 | 32 - 34 | NC | 9 | 630 | 1580 | 3130 | 629000 | 420000 | 2.5 | 5.0 | 11.5 | 7.7 |
| Intermediate | 11072 | 7-5/8" | 29.7 | HCP110 | LTC | New | 9-7/8" | 11072 | Brine | 8.7 - 9.0 | 28-29 | NC | 9 | 5182 | 6700 | 9460 | 940000 | 769000 | 1.3 | 1.8 | 2.9 | 2.3 |
| Production | 19791 | 5-1/2" | 20 | P110 HP | USS Eagle SFH | New | 6-3/4" | 11822 | OBM | 10.0-12.0 | 55-70 | | 12 | 7377 | 13150 | 14360 | 729000 | 629000 | 1.8 | 1.9 | 3.1 | 2.7 |

BLUN 428H Casing Assumptions

| Interval Conductor | Length | Casing Size | Weight (#/ft) | Grade | Thread | Condition New | Hole Size | TVD (ft) | Mud Type | Mud Weight Hole Control | Viscosity | Fluid Loss | Anticipated Mud Weight (ppg) | | Collapse (psi) | Burst (psi) | Body Tensile Strength | Joint Tensile Strength | Collapse Safety Factor (Min 1.1) | Burst Safety Factor (Min 1.0) | Body Tensile Safety Factor (Min 1.8) | Joint Tensile Safety Factor (Min 1.8) |
|--------------------|--------|-------------|------------------|---------|---------------|------------------|-----------|----------|----------|-------------------------------|-----------|------------|------------------------------------|------|-------------------|----------------|--------------------------|---------------------------|---|-------------------------------------|--|---|
| Surface | 1347 | 10-3/4" | 40.5 | J-55 | STC | New | 14-3/4" | 1347 | FW | 8.4 - 9.0 | 32 - 34 | NC | 9 | 630 | 1580 | 3130 | 629000 | 420000 | 2.5 | 5.0 | 11.5 | 7.7 |
| Intermediate | 11072 | 7-5/8" | 29.7 | HCP110 | LTC | New | 9-7/8" | 11072 | Brine | 8.7 - 9.0 | 28-29 | NC | 9 | 5182 | 6700 | 9460 | 940000 | 769000 | 1.3 | 1.8 | 2.9 | 2.3 |
| Production | 19791 | 5-1/2" | 20 | P110 HP | USS Eagle SFH | New | 6-3/4" | 11822 | OBM | 10.0-12.0 | 55-70 | | 12 | 7377 | 13150 | 14360 | 729000 | 629000 | 1.8 | 1.9 | 3.1 | 2.7 |

KAISER-FRANCIS OIL COMPANY HYDROGEN SULFIDE (H₂S) CONTINGENCY PLAN FOR DRILLING/COMPLETION WORKOVER/FACILITY

Bell Lake Unit North SECTION 1 -T23S-R33E SECTION 6 -T23S-R34E SECTION 5 -T23S-R34E

LEA COUNTY, NM

This well/facility is not expected to have H_2S , but due to the sensitive location, the following is submitted as requested.

TABLE OF CONTENTS

| Emergency Response Activation and General Responsibilities | 3 |
|--|---|
| Individual Responsibilities During An H ₂ S Release | 4 |
| Procedure For Igniting An Uncontrollable Condition | 5 |
| Emergency Phone Numbers | 6 |
| Protection Of The General Public/Roe | 7 |
| Characteristics Of H ₂ S And SO ₂ | 8 |
| Training | 8 |
| Public Relations | 8 |
| Maps | |

EMERGENCY RESPONSE ACTIVATION AND GENERAL RESPONSIBILITIES

Activation of the Emergency Action Plan

In the event of any emergency situation, all personnel on location should first ensure that the following items are initiated. After that, they should refer to the appropriate Specific Emergency Guidance sections below for further responsibilities:

- 1. Notify the senior ranking contract representative on site.
- 2. Notify Kaiser-Francis representative in charge.
- 3. Notify civil authorities if the Kaiser-Francis Representative cannot be contacted and the situation dictates.
- 4. Perform rescue and first aid as required (without jeopardizing additional personnel).

General Responsibilities

In the event of an H₂S emergency, the following plan will be initiated.

- 1) All personnel will immediately evacuate to an up-wind and if possible up-hill "safe area".
- 2) If for any reason a person must enter the hazardous area, they must wear a SCBA (Self contained breathing apparatus).
- 3) Always use the "buddy system".
- 4) Isolate the well/problem if possible.
- 5) Account for all personnel
- 6) Display the proper colors, warning all unsuspecting personnel of the danger at hand
- 7) Contact the Company personnel as soon as possible if not at the location. (use the enclosed call list as instructed)

At this point the company representative will evaluate the situation and coordinate the necessary duties to bring the situation under control, and if necessary, the notification of emergency response agencies and residents.

INDIVIDUAL RESPONSIBILITIES DURING AN H2S RELEASE

The following procedures and responsibilities will be implemented on activation of the H₂S siren and lights.

All Personnel:

1. On alarm, don escape unit (if available) and report to upwind briefing area.

Rig Manager/Tool Pusher:

- 1. Check that all personnel are accounted for and their condition.
- 2. Administer or arrange for first aid treatment, and/or call EMTs as needed.
- 3. Identify two people best suited to secure well and perform rescue, and instruct them to don SCBA.
- 4. Notify Contract management and Kaiser-Francis Representative.
- 5. Remain at the briefing area, assess and monitor personnel and overall situation for hazards or conditions that might warrant a change in the action plan.

Two People Responsible for Shut-in and Rescue:

- 1. Don SCBA and acquire tools to secure well and perform rescue, i.e., wrenches, retrieval ropes, etc.
- 2. Utilize the buddy system to secure well and perform rescue(s).
- 3. Return to the briefing area and stand by for further instructions.

All Other Personnel:

1. Isolate the area and prevent entry by other persons into the 100 ppm ROE. Additionally the first responder(s) must evacuate any public places encompassed by the 100 ppm ROE. First responder(s) must take care not to injure themselves during this operation. Company and/or local officials must be contacted to aid in this operation. Evacuation of the public should be beyond the 100 ppm ROE.

Kaiser-Francis Oil Company Representative:

- 1. Remain at the briefing area, assess and monitor personnel and overall situation for hazards or conditions that might warrant a change in the action plan.
- 2. Notify company management or Local Incident Commander, and Police, Fire Department, or other local emergency services as required.

PROCEDURE FOR IGNITING AN UNCONTROLLABLE CONDITION:

Should control of the well be considered lost and ignition considered, take care to protect against exposure to Sulfur Dioxide (SO₂). Intentional ignition must be coordinated with the NMOCD and local officials. Additionally the NM State Police shall be the Incident Command of any major release.

The decision to ignite a well should be a last resort and one if not both of the following pertain.

- 1) Human life and/or property are in danger.
- 2) There is no hope of bringing the situation under control with the prevailing conditions at the site.

INSTRUCTIONS FOR IGNITION:

- 1) Two people are required. They must be equipped with positive pressure; self contained breathing apparatus and a "D"-ring style, full body, OSHA approved safety harness. Non-flammable rope will be attached.
- 2) One of the people will be a qualified safety person who will test the atmosphere for H₂S, Oxygen, & LFL. The other person will be the company supervisor; he is responsible for igniting the well.
- 3) Ignite up-wind from a distance no closer than necessary. Make sure that where you ignite from has the maximum escape avenue available. A 25mm flare gun shall be used, with a +/-500' range to ignite the gas.
- 4) Prior to ignition, make a final check for combustible gases.
- 5) Following ignition, continue with the emergency actions & procedures as before.

CONTACTING AUTHORITIES

Kaiser-Francis personnel must liaison with local and state agencies to ensure a proper response to a major release. Additionally, the OCD must be notified of the release as soon as possible but no later than 4 hours. Agencies will ask for information such as type and volume of release, wind direction, location of release, etc. Be prepared with all information available. The following call list of essential and potential responders has been prepared for use during a release. This response plan must be in coordination with the State of New Mexico's 'Hazardous Materials Emergency Response Plan' (HMER).

EMERGENCY CALL LIST: (Start and continue until ONE of these people have been reached)

| Kaiser-Francis Oil Co. | <u>OFFCE</u> 918/494-0000 | <u>MOBILE</u> |
|------------------------|------------------------------|---------------|
| Bill Wilkinson | 580/668-2335 | 580/221-4637 |
| David Zerger | 918/491-4350 | 918/557-6708 |
| Charles Lock | 918/491-4337 | 918/671-6510 |
| Stuart Blake | 918/491-4347 | 918/510-4126 |
| Robert Sanford | 918/491-4201 | 918/770-2682 |
| Eric Hansen | 918/491-4339 | 918/527-5260 |

EMERGENCY RESPONSE NUMBERS: Lea County, New Mexico

| State Police – Artesia | 575/748-9718 |
|---|------------------------------|
| State Police – Hobbs | 575/392-5580 |
| State Police – Carlsbad | 575/885-3138 |
| Lea County Sheriff - Lovington | 575/396-3611 |
| Local Emergency Planning Center – Lea County | 575/396-8607 |
| Local Emergency Planning Center – Eddy County | 575/885-3581 |
| Fire Fighting, Rescue & Ambulance – Carlsbad | 911 or 575/885-3125 |
| Fire Fighting, Rescue & Ambulance – Hobbs | 911 or 575/397-9308 |
| Fire Fighting – Jal Volunteer Fire Department | 911 or 505/395-2221 |
| New Mexico Oil & Gas Commission – Artesia | 575/748-1283 |
| New Mexico Oil & Gas Commission – Hobbs | 575/393-6161 |
| Air Medical Transport Services – Hobbs | 800/550-1025 |
| Med Flight Air Ambulance – Albuquerque | 505/842-4433 |
| Angel MedFlight | 844/553-9033 |
| DXP | 432/580-3770 |
| BJ Services | 575/392-5556 |
| Halliburton | 575/392-6531 800/844-8451 |

PROTECTION OF THE GENERAL PUBLIC/ROE:

In the event of a release with a concentration greater than 100 ppm H₂S, the ROE (Radius of Exposure) calculations will be done to determine if the following conditions have been met:

- Does the 100 ppm ROE include any public area (any place not associated with this site)
- Does the 500 ppm ROE include any public road (any road which the general public may travel)
- Is the 100 ppm ROE equal to or greater than 3000 feet

If any one of these conditions have been met then the Contingency Plan will be implemented. The following shows how to calculate the radius of exposure and an example.

Calculation for the 100 ppm ROE:

X = [(1.589)(concentration)(Q)] (0.6258)

(H2S concentrations in decimal form)

10,000 ppm +=1.+

1,000 ppm +=.1+

100 ppm +=.01+

10 ppm +=.001+

Calculation for the 500 ppm ROE:

X+[(0.4546)(concentration)(Q)] (.06258)

EXAMPLE: If a well/facility has been determined to have 150 ppm H₂S in the gas mixture and the well/facility is producing at a gas rate of 200 MCFPD then:

ROE for 100 PPM X=[(1.589)(.0150)(200)] (0.6258)

X=2.65'

ROE for 500 PPM X=[(.4546)(.0150)(200)] (0.6258)

X=1.2'

(These calculations will be forwarded to the appropriate District NMOCD office when applicable.)

PUBLIC EVACUATION PLAN:

(When the supervisor has determined that the General Public will be involved, the following plan will be implemented)

- Notification of the emergency response agencies of the hazardous condition and 1) Implement evacuation procedures.
- 2) A trained person in H₂S safety, shall monitor with detection equipment the H₂S Concentration, wind and area of exposure (ROE). This person will determine the outer perimeter of the hazardous area. The extent of the evacuation area will be determined from the data being collected. Monitoring shall continue until the situation has been resolved. (All monitoring equipment will be UL approved, for use in class I groups A,B,C & D, Division I, hazardous locations. All monitors will have a minimum capability of measuring H₂S, oxygen, and flammable values.)
- 3) Law enforcement shall be notified to set up necessary barriers and maintain such for the duration of the situation as well as aid in the evacuation procedure.
- 4) The company supervising personnel shall stay in communication with all agencies through out the duration of the situation and inform such agencies when the situation has been contained and the effected area(s) is safe to enter.

CHARACTERISTICS OF H₂S AND SO₂

| Common | Chemical | Specific | Threshold | Hazardous | Lethal |
|----------------|------------------|----------|-----------|-----------|---------------|
| Name | Formula | Gravity | Limit | Limit | Concentration |
| Hydrogen | | 1.189 | | | |
| Sulfide | H ₂ S | Air = 1 | 10 ppm | 100 ppm | 600 ppm |
| | | 2.21 | | | |
| Sulfur Dioxide | SO ₂ | Air = 1 | 2 ppm | N/A | 1000 ppm |

TRAINING:

All responders must have training in the detection of H_2S measures for protection against the gas, equipment used for protection and emergency response. Weekly drills by all crews will be conducted and recorded in the IADC daily log. Additionally, responders must be equipped with H_2S monitors at all times.

PUBLIC RELATIONS

Kaiser-Francis recognizes that the news media have a legitimate interest in incidents at Kaiser-Francis facilities that could affect the public. It is to the company's benefit to cooperate with the news media when incidents occur because these media are our best liaison with the public.

Our objective is to see that all reports of any emergency are factual and represent the company's position fairly and accurately. Cooperation with news media representatives is the most reliable guarantee that this objective will be met.

All contract and Kaiser-Francis employees are instructed **NOT** to make any statement to the media concerning the emergency incident. If a media representative contacts any employee, they should refer them to the designated Emergency Command Center where they should contact the Incident Commander or his designated relief for any information concerning the incident.



Kaiser Francis

Bell Lake Unit North 428H Bell Lake Unit North 428H Bell Lake Unit North 428H Bell Lake Unit North 428H

Plan: 190915 Bell Lake Unit North 428H

Morcor Standard Plan

15 September, 2019



Project

Morcor Engineering

Morcor Standard Plan

Company: Kaiser Francis

Bell Lake Unit North 428H Project: Site: Bell Lake Unit North 428H Well: Bell Lake Unit North 428H Wellbore: Bell Lake Unit North 428H Design:

190915 Bell Lake Unit North 428H

Bell Lake Unit North 428H

US State Plane 1983 Map System: North American Datum 1983 Geo Datum: Map Zone:

Local Co-ordinate Reference: TVD Reference: MD Reference: North Reference:

Survey Calculation Method: Database:

System Datum:

Well Bell Lake Unit North 428H WELL @ 3499.7usft (Original Well Elev)

WELL @ 3499.7usft (Original Well Elev)

Mean Sea Level

Minimum Curvature EDM 5000.1 Single User Db

New Mexico Eastern Zone

Site Bell Lake Unit North 428H

485,580.94 usft Northing: Site Position: Latitude: 32° 19' 56.068 N Easting: 795,934.67 usft Longitude: 103° 30' 32.568 W Position Uncertainty: 1.0 usft Slot Radius: 17-1/2 " Grid Convergence: 0.44 °

Bell Lake Unit North 428H Well

0.0 usft **Well Position** +N/-S Northing: 485,580.94 usft 0.0 usft 795.934.67 usft +E/-W Easting: Position Uncertainty

1.0 usft Wellhead Elevation: Latitude: 32° 19' 56.068 N 103° 30' 32.568 W

Longitude: Ground Level: 3,477.7 usft

Wellbore Bell Lake Unit North 428H Model Name Declination Field Strength Magnetics Sample Date Dip Angle (°) (nT) IGRF2010 9/15/2019 6.54 60.08 47,862

Design 190915 Bell Lake Unit North 428H Audit Notes: PLAN Tie On Depth: Version: Phase: 0.0 Vertical Section: Depth From (TVD) +E/-W Direction +N/-S (usft) (usft) (usft) (°) 0.0 0.0 0.0 1.63

Survey Tool Program Date 9/15/2019 From (usft) (usft) Survey (Wellbore) **Tool Name** Description 19,791.2 190915 Bell Lake Unit North 428H (Bell La MWD MWD - Standard

Morcor Standard Plan

Company: Project: Site: Kaiser Francis Bell Lake Unit North 428H Bell Lake Unit North 428H Bell Lake Unit North 428H Well: Wellbore: Bell Lake Unit North 428H Design: 190915 Bell Lake Unit North 428H Local Co-ordinate Reference:

Database:

TVD Reference: MD Reference: North Reference: Survey Calculation Method: Well Bell Lake Unit North 428H

WELL @ 3499.7usft (Original Well Elev)
WELL @ 3499.7usft (Original Well Elev)

| ed Survey | | | | | | | | | | |
|-----------------|------------|----------------------|---------------|-----------------|---------------|---------------|-------------------|--------------------|------------------|---------------------|
| MD (usft) | Inc (°) | Azi (azimuth) (°) | TVD (usft) | TVDSS (usft) | N/S (usft) | E/W (usft) | Easting (usft) | Northing (usft) | V. Sec (usft) | DLeg (°/100usft) |
| 0.0 | 0.00 | 0.00 | 0.0 | -3,499.7 | 0.0 | 0.0 | 795,934.67 | 485,580.94 | 0.00 | 0.0 |
| 100.0 | 0.00 | 0.00 | 100.0 | -3,399.7 | 0.0 | 0.0 | 795,934.67 | 485,580.94 | 0.00 | 0.0 |
| 120.0 | 0.00 | 0.00 | 120.0 | -3,379.7 | 0.0 | 0.0 | 795,934.67 | 485,580.94 | 0.00 | 0.00 |
| 20" Conductor | | | | | | | | | | |
| 200.0 | 0.00 | 0.00 | 200.0 | -3,299.7 | 0.0 | 0.0 | 795,934.67 | 485,580.94 | 0.00 | 0.00 |
| 300.0 | 0.00 | 0.00 | 300.0 | -3,199.7 | 0.0 | 0.0 | 795,934.67 | 485,580.94 | 0.00 | 0.0 |
| 400.0 | 0.00 | 0.00 | 400.0 | -3,099.7 | 0.0 | 0.0 | 795,934.67 | 485,580.94 | 0.00 | 0.00 |
| 500.0 | 0.00 | 0.00 | 500.0 | -2,999.7 | 0.0 | 0.0 | 795,934.67 | 485,580.94 | 0.00 | 0.00 |
| 600.0 | 0.00 | 0.00 | 600.0 | -2,899.7 | 0.0 | 0.0 | 795,934.67 | 485,580.94 | 0.00 | 0.0 |
| 700.0 | 0.00 | 0.00 | 700.0 | -2,799.7 | 0.0 | 0.0 | 795,934.67 | 485,580.94 | 0.00 | 0.0 |
| 800.0 | 0.00 | 0.00 | 800.0 | -2,699.7 | 0.0 | 0.0 | 795,934.67 | 485,580.94 | 0.00 | 0.00 |
| 900.0 | 0.00 | 0.00 | 900.0 | -2,599.7 | 0.0 | 0.0 | 795,934.67 | 485,580.94 | 0.00 | 0.0 |
| 1,000.0 | 0.00 | 0.00 | 1,000.0 | -2,499.7 | 0.0 | 0.0 | 795,934.67 | 485,580.94 | 0.00 | 0.0 |
| 1,100.0 | 0.00 | 0.00 | 1,100.0 | -2,399.7 | 0.0 | 0.0 | 795,934.67 | 485,580.94 | 0.00 | 0.00 |
| 1,200.0 | 0.00 | 0.00 | 1,200.0 | -2,299.7 | 0.0 | 0.0 | 795,934.67 | 485,580.94 | 0.00 | 0.0 |
| 1,300.0 | 0.00 | 0.00 | 1,300.0 | -2,199.7 | 0.0 | 0.0 | 795,934.67 | 485,580.94 | 0.00 | 0.00 |
| 1,322.0 | 0.00 | 0.00 | 1,322.0 | -2,177.7 | 0.0 | 0.0 | 795,934.67 | 485,580.94 | 0.00 | 0.00 |
| Rustler | | | | | | | | | | |
| 1,347.0 | 0.00 | 0.00 | 1,347.0 | -2,152.7 | 0.0 | 0.0 | 795,934.67 | 485,580.94 | 0.00 | 0.00 |
| 13 3/8" Surface | | | | | | | | | | |
| 1,400.0 | 0.00 | 0.00 | 1,400.0 | -2,099.7 | 0.0 | 0.0 | 795,934.67 | 485,580.94 | 0.00 | 0.00 |
| 1,500.0 | 0.00 | 0.00 | 1,500.0 | -1,999.7 | 0.0 | 0.0 | 795,934.67 | 485,580.94 | 0.00 | 0.0 |
| 1,600.0 | 0.00 | 0.00 | 1,600.0 | -1,899.7 | 0.0 | 0.0 | 795,934.67 | 485,580.94 | 0.00 | 0.00 |
| 1,672.0 | 0.00 | 0.00 | 1,672.0 | -1,827.7 | 0.0 | 0.0 | 795,934.67 | 485,580.94 | 0.00 | 0.00 |
| Salado | | | | | | | | | | |
| 1,700.0 | 0.00 | 0.00 | 1,700.0 | -1,799.7 | 0.0 | 0.0 | 795,934.67 | 485,580.94 | 0.00 | 0.0 |
| 1,800.0 | 0.00 | 0.00 | 1,800.0 | -1,699.7 | 0.0 | 0.0 | 795,934.67 | 485,580.94 | 0.00 | 0.0 |
| 1,900.0 | 0.00 | 0.00 | 1,900.0 | -1,599.7 | 0.0 | 0.0 | 795,934.67 | 485,580.94 | 0.00 | 0.00 |

Morcor Standard Plan

Company: Project: Site: Kaiser Francis Bell Lake Unit North 428H Bell Lake Unit North 428H Bell Lake Unit North 428H Well: Wellbore: Bell Lake Unit North 428H Design: 190915 Bell Lake Unit North 428H Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference: Survey Calculation Method: Well Bell Lake Unit North 428H

WELL @ 3499.7usft (Original Well Elev)
WELL @ 3499.7usft (Original Well Elev)

| illoore: Beil Lake Unit North 428H sign: 190915 Bell Lake Unit North 428H | | | | | | Database: | ion method. | EDM 5000.1 Single | | |
|--|------------|-----------------------------|---------|-----------------|---------------|---------------|-------------------|--------------------|------------------|---------------------|
| ned Survey | | | | | | | | | | |
| MD (usft) | Inc (°) | Azi (azimuth) TV (°) (us | | TVDSS (usft) | N/S (usft) | E/W (usft) | Easting (usft) | Northing (usft) | V. Sec (usft) | DLeg (°/100usft) |
| 1,972.0 | 0.00 | 0.00 | 1,972.0 | -1,527.7 | 0.0 | 0.0 | 795,934.67 | 485,580.94 | 0.00 | (|
| Top of Salt | | | | | | | | | | |
| 2,000.0 | 0.00 | 0.00 | 2,000.0 | -1,499.7 | 0.0 | 0.0 | 795,934.67 | 485,580.94 | 0.00 | (|
| 2,100.0 | 0.00 | 0.00 | 2,100.0 | -1,399.7 | 0.0 | 0.0 | 795,934.67 | 485,580.94 | 0.00 | |
| 2,200.0 | 0.00 | 0.00 | 2,200.0 | -1,299.7 | 0.0 | 0.0 | 795,934.67 | 485,580.94 | 0.00 | |
| 2,300.0 | 0.00 | 0.00 | 2,300.0 | -1,199.7 | 0.0 | 0.0 | 795,934.67 | 485,580.94 | 0.00 | |
| 2,400.0 | 0.00 | 0.00 | 2,400.0 | -1,099.7 | 0.0 | 0.0 | 795,934.67 | 485,580.94 | 0.00 | |
| 2,500.0 | 0.00 | 0.00 | 2,500.0 | -999.7 | 0.0 | 0.0 | 795,934.67 | 485,580.94 | 0.00 | |
| 2,600.0 | 0.00 | 0.00 | 2,600.0 | -899.7 | 0.0 | 0.0 | 795,934.67 | 485,580.94 | 0.00 | |
| 2,700.0 | 0.00 | 0.00 | 2,700.0 | -799.7 | 0.0 | 0.0 | 795,934.67 | 485,580.94 | 0.00 | |
| 2,800.0 | 0.00 | 0.00 | 2,800.0 | -699.7 | 0.0 | 0.0 | 795,934.67 | 485,580.94 | 0.00 | |
| 2,900.0 | 0.00 | 0.00 | 2,900.0 | -599.7 | 0.0 | 0.0 | 795,934.67 | 485,580.94 | 0.00 | |
| 3,000.0 | 0.00 | 0.00 | 3,000.0 | -499.7 | 0.0 | 0.0 | 795,934.67 | 485,580.94 | 0.00 | |
| 3,100.0 | 0.00 | 0.00 | 3,100.0 | -399.7 | 0.0 | 0.0 | 795,934.67 | 485,580.94 | 0.00 | |
| 3,200.0 | 0.00 | 0.00 | 3,200.0 | -299.7 | 0.0 | 0.0 | 795,934.67 | 485,580.94 | 0.00 | |
| 3,300.0 | 0.00 | 0.00 | 3,300.0 | -199.7 | 0.0 | 0.0 | 795,934.67 | 485,580.94 | 0.00 | |
| 3,400.0 | 0.00 | 0.00 | 3,400.0 | -99.7 | 0.0 | 0.0 | 795,934.67 | 485,580.94 | 0.00 | |
| 3,500.0 | 0.00 | 0.00 | 3,500.0 | 0.3 | 0.0 | 0.0 | 795,934.67 | 485,580.94 | 0.00 | |
| 3,600.0 | 0.00 | 0.00 | 3,600.0 | 100.3 | 0.0 | 0.0 | 795,934.67 | 485,580.94 | 0.00 | |
| 3,700.0 | 0.00 | 0.00 | 3,700.0 | 200.3 | 0.0 | 0.0 | 795,934.67 | 485,580.94 | 0.00 | |
| 3,800.0 | 0.00 | 0.00 | 3,800.0 | 300.3 | 0.0 | 0.0 | 795,934.67 | 485,580.94 | 0.00 | |
| 3,900.0 | 0.00 | 0.00 | 3,900.0 | 400.3 | 0.0 | 0.0 | 795,934.67 | 485,580.94 | 0.00 | |
| 4,000.0 | 0.00 | 0.00 | 4,000.0 | 500.3 | 0.0 | 0.0 | 795,934.67 | 485,580.94 | 0.00 | |
| 4,100.0 | 0.00 | 0.00 | 4,100.0 | 600.3 | 0.0 | 0.0 | 795,934.67 | 485,580.94 | 0.00 | |
| 4,200.0 | 0.00 | 0.00 | 4,200.0 | 700.3 | 0.0 | 0.0 | 795,934.67 | 485,580.94 | 0.00 | |
| 4,300.0 | 0.00 | 0.00 | 4,300.0 | 800.3 | 0.0 | 0.0 | 795,934.67 | 485,580.94 | 0.00 | |
| 4,400.0 | 0.00 | 0.00 | 4,400.0 | 900.3 | 0.0 | 0.0 | 795,934.67 | 485,580.94 | 0.00 | |

Morcor Standard Plan

Company: Project: Site: Kaiser Francis Bell Lake Unit North 428H Bell Lake Unit North 428H Bell Lake Unit North 428H Well: Wellbore: Bell Lake Unit North 428H Design: 190915 Bell Lake Unit North 428H Local Co-ordinate Reference:

TVD Reference: MD Reference:

WELL @ 3499.7usft (Original Well Elev)
WELL @ 3499.7usft (Original Well Elev) North Reference: Survey Calculation Method:

Minimum Curvature EDM 5000.1 Single User Db

Well Bell Lake Unit North 428H

| gn: 190915 Bell Lake Unit North 428 | | | | | | | tion Method: | EDM 5000.1 Single User Db | | |
|-------------------------------------|------------------|----------------------|---------------|-----------------|---------------|---------------|-------------------|---------------------------|------------------|---------------------|
| ned Survey | | | | | | | | | | |
| MD (usft) | Inc (°) | Azi (azimuth) (°) | TVD (usft) | TVDSS (usft) | N/S (usft) | E/W (usft) | Easting (usft) | Northing (usft) | V. Sec (usft) | DLeg (°/100usft) |
| 4,500.0 | 0.0 | 0.00 | 4,500.0 | 1,000.3 | 0.0 | 0.0 | 795,934.67 | 485,580.94 | 0.00 | 0 |
| 4,600.0 | 0.0 | 0.00 | 4,600.0 | 1,100.3 | 0.0 | 0.0 | 795,934.67 | 485,580.94 | 0.00 | (|
| 4,700.0 | 0.0 | 0.00 | 4,700.0 | 1,200.3 | 0.0 | 0.0 | 795,934.67 | 485,580.94 | 0.00 | (|
| 4,800.0 | 0.0 | 0.00 | 4,800.0 | 1,300.3 | 0.0 | 0.0 | 795,934.67 | 485,580.94 | 0.00 | (|
| 4,900.0 | 0.0 | 0.00 | 4,900.0 | 1,400.3 | 0.0 | 0.0 | 795,934.67 | 485,580.94 | 0.00 | (|
| 4,997.0 | 0.0 | 0.00 | 4,997.0 | 1,497.3 | 0.0 | 0.0 | 795,934.67 | 485,580.94 | 0.00 | |
| Base of Sa | | | | | | | | | | |
| 5,000.0 | | | 5,000.0 | 1,500.3 | 0.0 | 0.0 | 795,934.67 | 485,580.94 | 0.00 | |
| 5,100.0 | 0.0 | 0.00 | 5,100.0 | 1,600.3 | 0.0 | 0.0 | 795,934.67 | 485,580.94 | 0.00 | |
| 5,172.0 | 0.0 | 0.00 | 5,172.0 | 1,672.3 | 0.0 | 0.0 | 795,934.67 | 485,580.94 | 0.00 | |
| Lamar | | | | | | | | | | |
| 5,200.0 | 0.0 | 0.00 | 5,200.0 | 1,700.3 | 0.0 | 0.0 | 795,934.67 | 485,580.94 | 0.00 | |
| 5,222.0 | 0.0 | 0.00 | 5,222.0 | 1,722.3 | 0.0 | 0.0 | 795,934.67 | 485,580.94 | 0.00 | |
| | ermediate Casing | | | | | | | | | |
| 5,247.0 | 0.0 | 0.00 | 5,247.0 | 1,747.3 | 0.0 | 0.0 | 795,934.67 | 485,580.94 | 0.00 | |
| Bell Canyo | | | | | | | | | | |
| 5,300.0 | | | 5,300.0 | 1,800.3 | 0.0 | 0.0 | 795,934.67 | 485,580.94 | 0.00 | |
| 5,400.0 | | | 5,400.0 | 1,900.3 | 0.0 | 0.0 | 795,934.67 | 485,580.94 | 0.00 | |
| 5,500.0 | 0.0 | 0.00 | 5,500.0 | 2,000.3 | 0.0 | 0.0 | 795,934.67 | 485,580.94 | 0.00 | |
| 5,600.0 | 0.0 | 0.00 | 5,600.0 | 2,100.3 | 0.0 | 0.0 | 795,934.67 | 485,580.94 | 0.00 | |
| 5,700.0 | 0.0 | 0.00 | 5,700.0 | 2,200.3 | 0.0 | 0.0 | 795,934.67 | 485,580.94 | 0.00 | |
| 5,800.0 | 0.0 | 0.00 | 5,800.0 | 2,300.3 | 0.0 | 0.0 | 795,934.67 | 485,580.94 | 0.00 | |
| 5,900.0 | 0.0 | 0.00 | 5,900.0 | 2,400.3 | 0.0 | 0.0 | 795,934.67 | 485,580.94 | 0.00 | |
| 6,000.0 | 0.0 | 0.00 | 6,000.0 | 2,500.3 | 0.0 | 0.0 | 795,934.67 | 485,580.94 | 0.00 | |
| 6,072.0 | 0.0 | 0.00 | 6,072.0 | 2,572.3 | 0.0 | 0.0 | 795,934.67 | 485,580.94 | 0.00 | |
| Cherry Car | | | | | | | | | | |
| 6,100.0 | | | 6,100.0 | 2,600.3 | 0.0 | 0.0 | 795,934.67 | 485,580.94 | 0.00 | |
| 6,200.0 | 0.0 | 0.00 | 6,200.0 | 2,700.3 | 0.0 | 0.0 | 795,934.67 | 485,580.94 | 0.00 | |

Morcor Standard Plan

Company: Project: Site: Kaiser Francis Bell Lake Unit North 428H Bell Lake Unit North 428H Bell Lake Unit North 428H Well: Wellbore: Bell Lake Unit North 428H Design: 190915 Bell Lake Unit North 428H

Local Co-ordinate Reference: TVD Reference: MD Reference: North Reference: Survey Calculation Method:

Well Bell Lake Unit North 428H WELL @ 3499.7usft (Original Well Elev)
WELL @ 3499.7usft (Original Well Elev)

| velibore: Beil Lake Unit North 428H Design: 190915 Bell Lake Unit North 428H | | | | | | Database: | | EDM 5000.1 Single | | |
|---|------------|-------------------|---------|---------------|---------------|---------------|-------------------|--------------------|------------------|---------------------|
| lanned Survey | | | | | | | | | | |
| MD (usft) | Inc (°) | Azi (azimuth) TVI | | /DSS usft) | N/S (usft) | E/W (usft) | Easting (usft) | Northing (usft) | V. Sec (usft) | DLeg (°/100usft) |
| 6,300.0 | 0.00 | 0.00 | 6,300.0 | 2,800.3 | 0.0 | 0.0 | 795,934.67 | 485,580.94 | 0.00 | 0.0 |
| 6,400.0 | 0.00 | 0.00 | 6,400.0 | 2,900.3 | 0.0 | 0.0 | 795,934.67 | 485,580.94 | 0.00 | 0.0 |
| 6,500.0 | 0.00 | 0.00 | 6,500.0 | 3,000.3 | 0.0 | 0.0 | 795,934.67 | 485,580.94 | 0.00 | 0.0 |
| 6,600.0 | 0.00 | 0.00 | 6,600.0 | 3,100.3 | 0.0 | 0.0 | 795,934.67 | 485,580.94 | 0.00 | 0.0 |
| 6,700.0 | 0.00 | 0.00 | 6,700.0 | 3,200.3 | 0.0 | 0.0 | 795,934.67 | 485,580.94 | 0.00 | 0.0 |
| 6,800.0 | 0.00 | 0.00 | 6,800.0 | 3,300.3 | 0.0 | 0.0 | 795,934.67 | 485,580.94 | 0.00 | 0.0 |
| 6,900.0 | 0.00 | 0.00 | 6,900.0 | 3,400.3 | 0.0 | 0.0 | 795,934.67 | 485,580.94 | 0.00 | 0.0 |
| 7,000.0 | 0.00 | 0.00 | 7,000.0 | 3,500.3 | 0.0 | 0.0 | 795,934.67 | 485,580.94 | 0.00 | 0.0 |
| 7,100.0 | 0.00 | 0.00 | 7,100.0 | 3,600.3 | 0.0 | 0.0 | 795,934.67 | 485,580.94 | 0.00 | 0.0 |
| 7,200.0 | 0.00 | 0.00 | 7,200.0 | 3,700.3 | 0.0 | 0.0 | 795,934.67 | 485,580.94 | 0.00 | 0.0 |
| 7,300.0 | 0.00 | 0.00 | 7,300.0 | 3,800.3 | 0.0 | 0.0 | 795,934.67 | 485,580.94 | 0.00 | 0.0 |
| 7,400.0 | 0.00 | 0.00 | 7,400.0 | 3,900.3 | 0.0 | 0.0 | 795,934.67 | 485,580.94 | 0.00 | 0.0 |
| 7,500.0 | 0.00 | 0.00 | 7,500.0 | 4,000.3 | 0.0 | 0.0 | 795,934.67 | 485,580.94 | 0.00 | 0.0 |
| 7,522.0 | 0.00 | 0.00 | 7,522.0 | 4,022.3 | 0.0 | 0.0 | 795,934.67 | 485,580.94 | 0.00 | 0.0 |
| Brushy Can | | | | | | | | | | |
| 7,600.0 | 0.00 | | 7,600.0 | 4,100.3 | 0.0 | 0.0 | 795,934.67 | 485,580.94 | 0.00 | 0.0 |
| 7,700.0 | | | 7,700.0 | 4,200.3 | 0.0 | 0.0 | 795,934.67 | 485,580.94 | 0.00 | 0.0 |
| 7,800.0 | 0.00 | 0.00 | 7,800.0 | 4,300.3 | 0.0 | 0.0 | 795,934.67 | 485,580.94 | 0.00 | 0.0 |
| 7,900.0 | 0.00 | 0.00 | 7,900.0 | 4,400.3 | 0.0 | 0.0 | 795,934.67 | 485,580.94 | 0.00 | 0.0 |
| 8,000.0 | 0.00 | 0.00 | 8,000.0 | 4,500.3 | 0.0 | 0.0 | 795,934.67 | 485,580.94 | 0.00 | 0.0 |
| 8,100.0 | 0.00 | 0.00 | 8,100.0 | 4,600.3 | 0.0 | 0.0 | 795,934.67 | 485,580.94 | 0.00 | 0.0 |
| 8,200.0 | 0.00 | 0.00 | 8,200.0 | 4,700.3 | 0.0 | 0.0 | 795,934.67 | 485,580.94 | 0.00 | 0.0 |
| 8,300.0 | 0.00 | 0.00 | 8,300.0 | 4,800.3 | 0.0 | 0.0 | 795,934.67 | 485,580.94 | 0.00 | 0.0 |
| 8,400.0 | 0.00 | 0.00 | 8,400.0 | 4,900.3 | 0.0 | 0.0 | 795,934.67 | 485,580.94 | 0.00 | 0.0 |
| 8,500.0 | 0.00 | 0.00 | 8,500.0 | 5,000.3 | 0.0 | 0.0 | 795,934.67 | 485,580.94 | 0.00 | 0.0 |
| 8,600.0 | 0.00 | 0.00 | 8,600.0 | 5,100.3 | 0.0 | 0.0 | 795,934.67 | 485,580.94 | 0.00 | 0.0 |
| 8,700.0 | 0.00 | 0.00 | 8,700.0 | 5,200.3 | 0.0 | 0.0 | 795,934.67 | 485,580.94 | 0.00 | 0.0 |

Morcor Standard Plan

Company: Project: Site: Kaiser Francis Bell Lake Unit North 428H Bell Lake Unit North 428H Bell Lake Unit North 428H Well: Wellbore: Bell Lake Unit North 428H 190915 Bell Lake Unit North 428H Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference: Survey Calculation Method:

Well Bell Lake Unit North 428H WELL @ 3499.7usft (Original Well Elev)
WELL @ 3499.7usft (Original Well Elev)

| gn: 190 | 915 Bell Lake Uni | T NORN 428H | | | | Database: | | EDM 5000.1 Single User Db | | |
|--------------|-------------------|----------------------|---------------|-----------------|---------------|---------------|-------------------|---------------------------|------------------|---------------------|
| ned Survey | | | | | | | | | | |
| MD (usft) | Inc (°) | Azi (azimuth) (°) | TVD (usft) | TVDSS (usft) | N/S (usft) | E/W (usft) | Easting (usft) | Northing (usft) | V. Sec (usft) | DLeg (°/100usft) |
| 8,722.0 | 0.00 | 0.00 | 8,722.0 | 5,222.3 | 0.0 | 0.0 | 795,934.67 | 485,580.94 | 0.00 | 0.0 |
| Bone Spring | | | | | | | | | | |
| 8,800.0 | 0.00 | 0.00 | 8,800.0 | 5,300.3 | 0.0 | 0.0 | 795,934.67 | 485,580.94 | 0.00 | 0. |
| 8,900.0 | 0.00 | 0.00 | 8,900.0 | 5,400.3 | 0.0 | 0.0 | 795,934.67 | 485,580.94 | 0.00 | 0. |
| 8,954.0 | 0.00 | 0.00 | 8,954.0 | 5,454.3 | 0.0 | 0.0 | 795,934.67 | 485,580.94 | 0.00 | 0. |
| Avalon | | | | | | | | | | |
| 9,000.0 | 0.00 | 0.00 | 9,000.0 | 5,500.3 | 0.0 | 0.0 | 795,934.67 | 485,580.94 | 0.00 | 0. |
| 9,100.0 | 0.00 | 0.00 | 9,100.0 | 5,600.3 | 0.0 | 0.0 | 795,934.67 | 485,580.94 | 0.00 | 0. |
| 9,200.0 | 0.00 | 0.00 | 9,200.0 | 5,700.3 | 0.0 | 0.0 | 795,934.67 | 485,580.94 | 0.00 | 0. |
| 9,300.0 | 0.00 | 0.00 | 9,300.0 | 5,800.3 | 0.0 | 0.0 | 795,934.67 | 485,580.94 | 0.00 | 0 |
| 9,400.0 | 0.00 | 0.00 | 9,400.0 | 5,900.3 | 0.0 | 0.0 | 795,934.67 | 485,580.94 | 0.00 | 0 |
| 9,500.0 | 0.00 | 0.00 | 9,500.0 | 6,000.3 | 0.0 | 0.0 | 795,934.67 | 485,580.94 | 0.00 | 0 |
| 9,600.0 | 0.00 | 0.00 | 9,600.0 | 6,100.3 | 0.0 | 0.0 | 795,934.67 | 485,580.94 | 0.00 | 0. |
| 9,700.0 | 0.00 | 0.00 | 9,700.0 | 6,200.3 | 0.0 | 0.0 | 795,934.67 | 485,580.94 | 0.00 | 0 |
| 9,800.0 | 0.00 | 0.00 | 9,800.0 | 6,300.3 | 0.0 | 0.0 | 795,934.67 | 485,580.94 | 0.00 | 0 |
| 9,822.0 | 0.00 | 0.00 | 9,822.0 | 6,322.3 | 0.0 | 0.0 | 795,934.67 | 485,580.94 | 0.00 | 0 |
| 1st BS Sand | | | | | | | | | | |
| 9,900.0 | 0.00 | | 9,900.0 | 6,400.3 | 0.0 | 0.0 | 795,934.67 | 485,580.94 | 0.00 | 0 |
| 10,000.0 | 0.00 | 0.00 | 10,000.0 | 6,500.3 | 0.0 | 0.0 | 795,934.67 | 485,580.94 | 0.00 | 0 |
| 10,100.0 | 0.00 | 0.00 | 10,100.0 | 6,600.3 | 0.0 | 0.0 | 795,934.67 | 485,580.94 | 0.00 | 0 |
| 10,200.0 | 0.00 | 0.00 | 10,200.0 | 6,700.3 | 0.0 | 0.0 | 795,934.67 | 485,580.94 | 0.00 | 0 |
| 10,300.0 | 0.00 | 0.00 | 10,300.0 | 6,800.3 | 0.0 | 0.0 | 795,934.67 | 485,580.94 | 0.00 | 0 |
| 10,400.0 | 0.00 | 0.00 | 10,400.0 | 6,900.3 | 0.0 | 0.0 | 795,934.67 | 485,580.94 | 0.00 | 0 |
| 10,407.0 | 0.00 | 0.00 | 10,407.0 | 6,907.3 | 0.0 | 0.0 | 795,934.67 | 485,580.94 | 0.00 | 0 |
| 2nd BS Sand | | | | | | | | | | |
| 10,500.0 | 0.00 | 0.00 | 10,500.0 | 7,000.3 | 0.0 | 0.0 | 795,934.67 | 485,580.94 | 0.00 | 0 |
| 10,600.0 | 0.00 | 0.00 | 10,600.0 | 7,100.3 | 0.0 | 0.0 | 795,934.67 | 485,580.94 | 0.00 | 0 |

Morcor Standard Plan

Company: Project: Site: Kaiser Francis Bell Lake Unit North 428H Bell Lake Unit North 428H Bell Lake Unit North 428H Well: Wellbore: Bell Lake Unit North 428H Design: 190915 Bell Lake Unit North 428H Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference: Survey Calculation Method:

Well Bell Lake Unit North 428H WELL @ 3499.7usft (Original Well Elev)
WELL @ 3499.7usft (Original Well Elev)

| gn: | 190915 Bell Lake U | | | | | Database: | | EDM 5000.1 Single | | |
|--------------|---------------------|----------------------|---------------|-----------------|---------------|---------------|-------------------|--------------------|------------------|---------------------|
| ned Survey | | | | | | | | | | |
| MD (usft) | Inc (°) | Azi (azimuth) (°) | TVD (usft) | TVDSS (usft) | N/S (usft) | E/W (usft) | Easting (usft) | Northing (usft) | V. Sec (usft) | DLeg (°/100usft) |
| 10,700 | .0 0.0 | 0.00 | 10,700.0 | 7,200.3 | 0.0 | 0.0 | 795,934.67 | 485,580.94 | 0.00 | 0. |
| 10,800 | .0 0.0 | 0.00 | 10,800.0 | 7,300.3 | 0.0 | 0.0 | 795,934.67 | 485,580.94 | 0.00 | 0 |
| 10,897 | .0 0.0 | 0.00 | 10,897.0 | 7,397.3 | 0.0 | 0.0 | 795,934.67 | 485,580.94 | 0.00 | 0 |
| 3rd BS Lir | ne | | | | | | | | | |
| 10,900 | .0 0.0 | 0.00 | 10,900.0 | 7,400.3 | 0.0 | 0.0 | 795,934.67 | 485,580.94 | 0.00 | 0 |
| 10,975 | .0 0.0 | 0.00 | 10,975.0 | 7,475.3 | 0.0 | 0.0 | 795,934.67 | 485,580.94 | 0.00 | (|
| Start Build | d 10.00 | | | | | | | | | |
| 11,000 | .0 2.5 | 0 103.86 | 11,000.0 | 7,500.3 | -0.1 | 0.5 | 795,935.20 | 485,580.81 | -0.12 | 10 |
| 11,072 | .5 9.7 | 5 103.86 | 11,072.0 | 7,572.3 | -2.0 | 8.0 | 795,942.70 | 485,578.96 | -1.75 | 10 |
| | Intermediate Casing | | | | | | | | | |
| 11,100. | .0 12.5 | 0 103.86 | 11,099.0 | 7,599.3 | -3.3 | 13.2 | 795,947.86 | 485,577.69 | -2.88 | 10 |
| 11,200. | .0 22.5 | 0 103.86 | 11,194.3 | 7,694.6 | -10.4 | 42.3 | 795,977.01 | 485,570.49 | -9.24 | 10 |
| 11,270. | .3 29.5 | 3 103.86 | 11,257.4 | 7,757.7 | -17.8 | 72.2 | 796,006.91 | 485,563.12 | -15.77 | 10 |
| Start DLS | 10.03 TFO -103.06 | | | | | | | | | |
| 11,300. | .0 28.9 | 8 97.85 | 11,283.3 | 7,783.6 | -20.6 | 86.5 | 796,021.17 | 485,560.37 | -18.10 | 1 |
| 11,400 | .0 29.2 | 1 77.14 | 11,370.9 | 7,871.2 | -18.4 | 134.4 | 796,069.08 | 485,562.50 | -14.62 | 1 |
| 11,401. | .2 29.2 | 3 76.89 | 11,372.0 | 7,872.3 | -18.3 | 135.0 | 796,069.67 | 485,562.63 | -14.47 | 1 |
| 3rd BS Sa | nd | | | | | | | | | |
| 11,500. | .0 32.4 | 1 58.49 | 11,457.0 | 7,957.3 | 1.0 | 181.2 | 796,115.83 | 485,581.98 | 6.18 | 10 |
| 11,600 | .0 37.8 | 3 43.75 | 11,538.9 | 8,039.2 | 37.3 | 225.3 | 796,159.99 | 485,618.22 | 43.67 | 1 |
| 11,700. | .0 44.6 | 6 32.57 | 11,614.2 | 8,114.5 | 89.2 | 265.5 | 796,200.22 | 485,670.12 | 96.69 | 1 |
| 11,711. | .1 45.4 | 7 31.50 | 11,622.0 | 8,122.3 | 95.8 | 269.7 | 796,204.38 | 485,676.77 | 103.46 | 10 |
| Wolfcamp | | | | | | | | | | |
| 11,800. | .0 52.3 | 4 23.92 | 11,680.5 | 8,180.8 | 155.1 | 300.6 | 796,235.27 | 485,736.09 | 163.62 | 1 |
| 11,900. | .0 60.5 | 2 16.95 | 11,735.8 | 8,236.1 | 233.2 | 329.4 | 796,264.09 | 485,814.10 | 242.42 | 10 |
| 12,000 | .0 69.0 | 2 11.05 | 11,778.4 | 8,278.7 | 320.8 | 351.1 | 796,285.78 | 485,901.78 | 330.68 | 1 |
| 12,100 | .0 77.7 | 0 5.79 | 11,807.0 | 8,307.3 | 415.5 | 365.0 | 796,299.69 | 485,996.45 | 425.71 | 1 |
| 12,200 | .0 86.4 | 7 0.87 | 11,820.8 | 8,321.1 | 514.3 | 370.7 | 796,305.39 | 486,095.20 | 524.58 | 1 |

Morcor Standard Plan

Company: Project: Site: Kaiser Francis Bell Lake Unit North 428H Bell Lake Unit North 428H Bell Lake Unit North 428H Well: Wellbore: Bell Lake Unit North 428H Design: 190915 Bell Lake Unit North 428H Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference: Survey Calculation Method:

Well Bell Lake Unit North 428H WELL @ 3499.7usft (Original Well Elev)
WELL @ 3499.7usft (Original Well Elev)

| 1903 | o 15 Dell Lake Utill | 1401(11 42011 | | | | Database: | | LDW 3000.1 Single | 5000.1 Single Oser Db | |
|-----------------|----------------------|----------------------|---------------|-----------------|---------------|---------------|-------------------|--------------------|-----------------------|---------------------|
| ed Survey | | | | | | | | | | |
| MD (usft) | Inc (°) | Azi (azimuth) (°) | TVD (usft) | TVDSS (usft) | N/S (usft) | E/W (usft) | Easting (usft) | Northing (usft) | V. Sec (usft) | DLeg (°/100usft) |
| 12,240.1 | 90.00 | 358.93 | 11,822.0 | 8,322.3 | 554.4 | 370.7 | 796,305.32 | 486,135.30 | 564.67 | 10.0 |
| Start 7551.1 ho | old at 12240.1 MD | | | | | | | | | |
| 12,300.0 | 90.00 | 358.93 | 11,822.0 | 8,322.3 | 614.2 | 369.5 | 796,304.21 | 486,195.16 | 624.47 | 0.0 |
| 12,400.0 | 90.00 | 358.93 | 11,822.0 | 8,322.3 | 714.2 | 367.7 | 796,302.35 | 486,295.15 | 724.36 | 0.0 |
| 12,500.0 | 90.00 | 358.93 | 11,822.0 | 8,322.3 | 814.2 | 365.8 | 796,300.49 | 486,395.13 | 824.25 | 0. |
| 12,600.0 | 90.00 | 358.93 | 11,822.0 | 8,322.3 | 914.2 | 364.0 | 796,298.63 | 486,495.11 | 924.14 | 0. |
| 12,700.0 | 90.00 | 358.93 | 11,822.0 | 8,322.3 | 1,014.2 | 362.1 | 796,296.77 | 486,595.09 | 1,024.03 | 0.0 |
| 12,800.0 | 90.00 | 358.93 | 11,822.0 | 8,322.3 | 1,114.1 | 360.2 | 796,294.91 | 486,695.08 | 1,123.92 | 0.0 |
| 12,900.0 | 90.00 | 358.93 | 11,822.0 | 8,322.3 | 1,214.1 | 358.4 | 796,293.05 | 486,795.06 | 1,223.81 | 0. |
| 13,000.0 | 90.00 | 358.93 | 11,822.0 | 8,322.3 | 1,314.1 | 356.5 | 796,291.19 | 486,895.04 | 1,323.70 | 0.0 |
| 13,100.0 | 90.00 | 358.93 | 11,822.0 | 8,322.3 | 1,414.1 | 354.7 | 796,289.33 | 486,995.03 | 1,423.59 | 0. |
| 13,200.0 | 90.00 | 358.93 | 11,822.0 | 8,322.3 | 1,514.1 | 352.8 | 796,287.48 | 487,095.01 | 1,523.48 | 0.9 |
| 13,300.0 | 90.00 | 358.93 | 11,822.0 | 8,322.3 | 1,614.1 | 350.9 | 796,285.62 | 487,194.99 | 1,623.37 | 0. |
| 13,400.0 | 90.00 | 358.93 | 11,822.0 | 8,322.3 | 1,714.0 | 349.1 | 796,283.76 | 487,294.97 | 1,723.26 | 0. |
| 13,500.0 | 90.00 | 358.93 | 11,822.0 | 8,322.3 | 1,814.0 | 347.2 | 796,281.90 | 487,394.96 | 1,823.15 | 0. |
| 13,600.0 | 90.00 | 358.93 | 11,822.0 | 8,322.3 | 1,914.0 | 345.4 | 796,280.04 | 487,494.94 | 1,923.04 | 0. |
| 13,700.0 | 90.00 | 358.93 | 11,822.0 | 8,322.3 | 2,014.0 | 343.5 | 796,278.18 | 487,594.92 | 2,022.93 | 0. |
| 13,800.0 | 90.00 | 358.93 | 11,822.0 | 8,322.3 | 2,114.0 | 341.7 | 796,276.32 | 487,694.90 | 2,122.82 | 0. |
| 13,900.0 | 90.00 | 358.93 | 11,822.0 | 8,322.3 | 2,213.9 | 339.8 | 796,274.46 | 487,794.89 | 2,222.70 | 0. |
| 14,000.0 | 90.00 | 358.93 | 11,822.0 | 8,322.3 | 2,313.9 | 337.9 | 796,272.60 | 487,894.87 | 2,322.59 | 0. |
| 14,100.0 | 90.00 | 358.93 | 11,822.0 | 8,322.3 | 2,413.9 | 336.1 | 796,270.74 | 487,994.85 | 2,422.48 | 0. |
| 14,200.0 | 90.00 | 358.93 | 11,822.0 | 8,322.3 | 2,513.9 | 334.2 | 796,268.88 | 488,094.84 | 2,522.37 | 0. |
| 14,300.0 | 90.00 | 358.93 | 11,822.0 | 8,322.3 | 2,613.9 | 332.4 | 796,267.02 | 488,194.82 | 2,622.26 | 0 |
| 14,400.0 | 90.00 | 358.93 | 11,822.0 | 8,322.3 | 2,713.9 | 330.5 | 796,265.17 | 488,294.80 | 2,722.15 | 0. |
| 14,500.0 | 90.00 | 358.93 | 11,822.0 | 8,322.3 | 2,813.8 | 328.6 | 796,263.31 | 488,394.78 | 2,822.04 | 0 |
| 14,600.0 | 90.00 | 358.93 | 11,822.0 | 8,322.3 | 2,913.8 | 326.8 | 796,261.45 | 488,494.77 | 2,921.93 | 0 |
| 14,700.0 | 90.00 | 358.93 | 11,822.0 | 8,322.3 | 3,013.8 | 324.9 | 796,259.59 | 488,594.75 | 3,021.82 | 0. |

Morcor Standard Plan

Company: Project: Site: Kaiser Francis Bell Lake Unit North 428H Bell Lake Unit North 428H Bell Lake Unit North 428H Well: Wellbore: Bell Lake Unit North 428H Design: 190915 Bell Lake Unit North 428H Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference: Survey Calculation Method:

Well Bell Lake Unit North 428H WELL @ 3499.7usft (Original Well Elev)
WELL @ 3499.7usft (Original Well Elev)

| esign: 190915 Bell Lake Unit North 428H | | | | | Database: | | EDM 5000.1 Single User Db | | | |
|---|------------|--------|------------|-----------------|---------------|---------------|---------------------------|--------------------|------------------|---------------------|
| ned Survey | | | | | | | | | | |
| MD (usft) | Inc (°) | | VD sft) | TVDSS (usft) | N/S (usft) | E/W (usft) | Easting (usft) | Northing (usft) | V. Sec (usft) | DLeg (°/100usft) |
| 14,800.0 | 90.00 | 358.93 | 11,822.0 | 8,322.3 | 3,113.8 | 323.1 | 796,257.73 | 488,694.73 | 3,121.71 | 0 |
| 14,900.0 | 90.00 | 358.93 | 11,822.0 | 8,322.3 | 3,213.8 | 321.2 | 796,255.87 | 488,794.71 | 3,221.60 | 0 |
| 15,000.0 | 90.00 | 358.93 | 11,822.0 | 8,322.3 | 3,313.8 | 319.3 | 796,254.01 | 488,894.70 | 3,321.49 | (|
| 15,100.0 | 90.00 | 358.93 | 11,822.0 | 8,322.3 | 3,413.7 | 317.5 | 796,252.15 | 488,994.68 | 3,421.38 | (|
| 15,200.0 | 90.00 | 358.93 | 11,822.0 | 8,322.3 | 3,513.7 | 315.6 | 796,250.29 | 489,094.66 | 3,521.27 | (|
| 15,300.0 | 90.00 | 358.93 | 11,822.0 | 8,322.3 | 3,613.7 | 313.8 | 796,248.43 | 489,194.65 | 3,621.16 | |
| 15,400.0 | 90.00 | 358.93 | 11,822.0 | 8,322.3 | 3,713.7 | 311.9 | 796,246.57 | 489,294.63 | 3,721.05 | |
| 15,500.0 | 90.00 | 358.93 | 11,822.0 | 8,322.3 | 3,813.7 | 310.0 | 796,244.71 | 489,394.61 | 3,820.94 | |
| 15,600.0 | 90.00 | 358.93 | 11,822.0 | 8,322.3 | 3,913.7 | 308.2 | 796,242.85 | 489,494.59 | 3,920.83 | |
| 15,700.0 | 90.00 | 358.93 | 11,822.0 | 8,322.3 | 4,013.6 | 306.3 | 796,241.00 | 489,594.58 | 4,020.72 | |
| 15,800.0 | 90.00 | 358.93 | 11,822.0 | 8,322.3 | 4,113.6 | 304.5 | 796,239.14 | 489,694.56 | 4,120.61 | |
| 15,900.0 | 90.00 | 358.93 | 11,822.0 | 8,322.3 | 4,213.6 | 302.6 | 796,237.28 | 489,794.54 | 4,220.50 | |
| 16,000.0 | 90.00 | 358.93 | 11,822.0 | 8,322.3 | 4,313.6 | 300.7 | 796,235.42 | 489,894.52 | 4,320.39 | |
| 16,100.0 | 90.00 | 358.93 | 11,822.0 | 8,322.3 | 4,413.6 | 298.9 | 796,233.56 | 489,994.51 | 4,420.28 | |
| 16,200.0 | 90.00 | 358.93 | 11,822.0 | 8,322.3 | 4,513.5 | 297.0 | 796,231.70 | 490,094.49 | 4,520.17 | |
| 16,300.0 | 90.00 | 358.93 | 11,822.0 | 8,322.3 | 4,613.5 | 295.2 | 796,229.84 | 490,194.47 | 4,620.05 | |
| 16,400.0 | 90.00 | 358.93 | 11,822.0 | 8,322.3 | 4,713.5 | 293.3 | 796,227.98 | 490,294.46 | 4,719.94 | |
| 16,500.0 | 90.00 | 358.93 | 11,822.0 | 8,322.3 | 4,813.5 | 291.5 | 796,226.12 | 490,394.44 | 4,819.83 | |
| 16,600.0 | 90.00 | 358.93 | 11,822.0 | 8,322.3 | 4,913.5 | 289.6 | 796,224.26 | 490,494.42 | 4,919.72 | |
| 16,700.0 | 90.00 | 358.93 | 11,822.0 | 8,322.3 | 5,013.5 | 287.7 | 796,222.40 | 490,594.40 | 5,019.61 | |
| 16,800.0 | 90.00 | 358.93 | 11,822.0 | 8,322.3 | 5,113.4 | 285.9 | 796,220.54 | 490,694.39 | 5,119.50 | |
| 16,900.0 | 90.00 | 358.93 | 11,822.0 | 8,322.3 | 5,213.4 | 284.0 | 796,218.68 | 490,794.37 | 5,219.39 | |
| 17,000.0 | 90.00 | 358.93 | 11,822.0 | 8,322.3 | 5,313.4 | 282.2 | 796,216.83 | 490,894.35 | 5,319.28 | |
| 17,100.0 | 90.00 | 358.93 | 11,822.0 | 8,322.3 | 5,413.4 | 280.3 | 796,214.97 | 490,994.33 | 5,419.17 | |
| 17,200.0 | 90.00 | 358.93 | 11,822.0 | 8,322.3 | 5,513.4 | 278.4 | 796,213.11 | 491,094.32 | 5,519.06 | |
| 17,300.0 | 90.00 | 358.93 | 11,822.0 | 8,322.3 | 5,613.4 | 276.6 | 796,211.25 | 491,194.30 | 5,618.95 | |
| 17,400.0 | 90.00 | 358.93 | 11,822.0 | 8,322.3 | 5,713.3 | 274.7 | 796,209.39 | 491,294.28 | 5,718.84 | |

Morcor Standard Plan

Company: Project: Site: Kaiser Francis Bell Lake Unit North 428H Bell Lake Unit North 428H Bell Lake Unit North 428H Well: Wellbore: Bell Lake Unit North 428H Design: 190915 Bell Lake Unit North 428H Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference: Survey Calculation Method:

Well Bell Lake Unit North 428H WELL @ 3499.7usft (Original Well Elev)
WELL @ 3499.7usft (Original Well Elev)

| sign: 190915 Bell Lake Unit North 428H | | | | | Database: | | EDM 5000.1 Single User Db | | | |
|--|---------------------|-------------------|----------|-----------------|---------------|---------------|---------------------------|--------------------|------------------|---------------------|
| ned Survey | | | | | | | | | | |
| MD (usft) | Inc (°) | Azi (azimuth) TVI | | TVDSS (usft) | N/S (usft) | E/W (usft) | Easting (usft) | Northing (usft) | V. Sec (usft) | DLeg (°/100usft) |
| 17,500.0 | 90.00 | 358.93 | 11,822.0 | 8,322.3 | 5,813.3 | 272.9 | 796,207.53 | 491,394.27 | 5,818.73 | (|
| 17,600.0 | 90.00 | 358.93 | 11,822.0 | 8,322.3 | 5,913.3 | 271.0 | 796,205.67 | 491,494.25 | 5,918.62 | |
| 17,700.0 | 90.00 | 358.93 | 11,822.0 | 8,322.3 | 6,013.3 | 269.1 | 796,203.81 | 491,594.23 | 6,018.51 | |
| 17,800.0 | 90.00 | 358.93 | 11,822.0 | 8,322.3 | 6,113.3 | 267.3 | 796,201.95 | 491,694.21 | 6,118.40 | |
| 17,900.0 | 90.00 | 358.93 | 11,822.0 | 8,322.3 | 6,213.3 | 265.4 | 796,200.09 | 491,794.20 | 6,218.29 | |
| 18,000.0 | 90.00 | 358.93 | 11,822.0 | 8,322.3 | 6,313.2 | 263.6 | 796,198.23 | 491,894.18 | 6,318.18 | |
| 18,100.0 | 90.00 | 358.93 | 11,822.0 | 8,322.3 | 6,413.2 | 261.7 | 796,196.37 | 491,994.16 | 6,418.07 | |
| 18,200.0 | 90.00 | 358.93 | 11,822.0 | 8,322.3 | 6,513.2 | 259.8 | 796,194.51 | 492,094.14 | 6,517.96 | |
| 18,300.0 | 90.00 | 358.93 | 11,822.0 | 8,322.3 | 6,613.2 | 258.0 | 796,192.66 | 492,194.13 | 6,617.85 | |
| 18,400.0 | 90.00 | 358.93 | 11,822.0 | 8,322.3 | 6,713.2 | 256.1 | 796,190.80 | 492,294.11 | 6,717.74 | |
| 18,500.0 | 90.00 | 358.93 | 11,822.0 | 8,322.3 | 6,813.2 | 254.3 | 796,188.94 | 492,394.09 | 6,817.63 | |
| 18,600.0 | 90.00 | 358.93 | 11,822.0 | 8,322.3 | 6,913.1 | 252.4 | 796,187.08 | 492,494.08 | 6,917.52 | |
| 18,700.0 | 90.00 | 358.93 | 11,822.0 | 8,322.3 | 7,013.1 | 250.5 | 796,185.22 | 492,594.06 | 7,017.40 | |
| 18,800.0 | 90.00 | 358.93 | 11,822.0 | 8,322.3 | 7,113.1 | 248.7 | 796,183.36 | 492,694.04 | 7,117.29 | |
| 18,900.0 | 90.00 | 358.93 | 11,822.0 | 8,322.3 | 7,213.1 | 246.8 | 796,181.50 | 492,794.02 | 7,217.18 | |
| 19,000.0 | 90.00 | 358.93 | 11,822.0 | 8,322.3 | 7,313.1 | 245.0 | 796,179.64 | 492,894.01 | 7,317.07 | |
| 19,100.0 | 90.00 | 358.93 | 11,822.0 | 8,322.3 | 7,413.0 | 243.1 | 796,177.78 | 492,993.99 | 7,416.96 | |
| 19,200.0 | 90.00 | 358.93 | 11,822.0 | 8,322.3 | 7,513.0 | 241.3 | 796,175.92 | 493,093.97 | 7,516.85 | |
| 19,300.0 | 90.00 | 358.93 | 11,822.0 | 8,322.3 | 7,613.0 | 239.4 | 796,174.06 | 493,193.95 | 7,616.74 | |
| 19,400.0 | 90.00 | 358.93 | 11,822.0 | 8,322.3 | 7,713.0 | 237.5 | 796,172.20 | 493,293.94 | 7,716.63 | |
| 19,500.0 | 90.00 | 358.93 | 11,822.0 | 8,322.3 | 7,813.0 | 235.7 | 796,170.34 | 493,393.92 | 7,816.52 | |
| 19,600.0 | 90.00 | 358.93 | 11,822.0 | 8,322.3 | 7,913.0 | 233.8 | 796,168.49 | 493,493.90 | 7,916.41 | |
| 19,700.0 | 90.00 | 358.93 | 11,822.0 | 8,322.3 | 8,012.9 | 232.0 | 796,166.63 | 493,593.88 | 8,016.30 | |
| 19,791.2 | 90.00 | 358.93 | 11,822.0 | 8,322.3 | 8,104.1 | 230.3 | 796,164.93 | 493,685.07 | 8,107.40 | |
| TD at 19791.2 | - 5 1/2" Production | n Casing | | | | | | | | |



Morcor Standard Plan

Company: Project: Site: Kaiser Francis Bell Lake Unit North 428H Bell Lake Unit North 428H Bell Lake Unit North 428H Well: Wellbore: Bell Lake Unit North 428H

190915 Bell Lake Unit North 428H

Database:

Local Co-ordinate Reference: TVD Reference: MD Reference: North Reference: Survey Calculation Method:

Well Bell Lake Unit North 428H WELL @ 3499.7usft (Original Well Elev)
WELL @ 3499.7usft (Original Well Elev)

Minimum Curvature EDM 5000.1 Single User Db

| Casi | ng | Ро | ints |
|------|----|----|------|
| | | | |

Design:

| Measured Depth (usft) | Vertical Depth (usft) | Name | Casing Diameter (") | Hole Diameter (") |
|-----------------------------|-----------------------------|--------------------------------|---------------------------|-------------------------|
| 120.0 | 120.0 | 20" Conductor | 20 | 26 |
| 1,347.0 | 1,347.0 | 13 3/8" Surface Casing | 13-3/8 | 17-1/2 |
| 5,222.0 | 5,222.0 | 10 3/4" Intermediate Casing | 10-3/4 | 12-1/4 |
| 11,072.5 | 11,072.0 | 7 5/8" 2nd Intermediate Casing | 7-5/8 | 9-7/8 |
| 19,791.2 | 11,822.0 | 5 1/2" Production Casing | 5-1/2 | 6-3/4 |

| ormations | | | | | | | | |
|-----------|-----------------------------|-----------------------------|---------------|------|-----------|------------|-------------------------|--|
| | Measured Depth (usft) | Vertical Depth (usft) | | lame | Lithology | Dip (°) | Dip Direction (°) | |
| | 5,247.0 | 5,247.0 | Bell Canyon | | | 0.00 | | |
| | 8,722.0 | 8,722.0 | Bone Spring | | | 0.00 | | |
| | 9,822.0 | 9,822.0 | 1st BS Sand | | | 0.00 | | |
| | 4,997.0 | 4,997.0 | Base of Salt | | | 0.00 | | |
| | 1,672.0 | 1,672.0 | Salado | | | 0.00 | | |
| | 11,401.2 | 11,372.0 | 3rd BS Sand | | | 0.00 | | |
| | 6,072.0 | 6,072.0 | Cherry Canyon | | | 0.00 | | |
| | 7,522.0 | 7,522.0 | Brushy Canyon | | | 0.00 | | |
| | 1,972.0 | 1,972.0 | Top of Salt | | | 0.00 | | |
| | 11,711.1 | 11,622.0 | Wolfcamp | | | 0.00 | | |
| | 1,322.0 | 1,322.0 | Rustler | | | 0.00 | | |
| | 10,897.0 | 10,897.0 | 3rd BS Lime | | | 0.00 | | |
| | 8,954.0 | 8,954.0 | Avalon | | | 0.00 | | |
| | 5,172.0 | 5,172.0 | Lamar | | | 0.00 | | |
| | 10,407.0 | 10,407.0 | 2nd BS Sand | | | 0.00 | | |



Morcor Standard Plan

Company: Project: Site: Kaiser Francis Bell Lake Unit North 428H Bell Lake Unit North 428H Bell Lake Unit North 428H Well: Wellbore: Bell Lake Unit North 428H 190915 Bell Lake Unit North 428H Design:

Local Co-ordinate Reference: TVD Reference: MD Reference: North Reference: Survey Calculation Method:

Database:

Well Bell Lake Unit North 428H

WELL @ 3499.7usft (Original Well Elev)
WELL @ 3499.7usft (Original Well Elev)

| Plan Annota | ations | | | | |
|-------------|----------|----------|-------------|---------|---------------------------------|
| | Measured | Vertical | Local Coord | dinates | |
| | Depth | Depth | +N/-S | +E/-W | |
| | (usft) | (usft) | (usft) | (usft) | Comment |
| | 10,975.0 | 10,975.0 | 0.0 | 0.0 | Start Build 10.00 |
| | 11,270.3 | 11,257.4 | -17.8 | 72.2 | Start DLS 10.03 TFO -103.06 |
| | 12,240.1 | 11,822.0 | 554.4 | 370.7 | Start 7551.1 hold at 12240.1 MD |
| | 19,791.2 | 11,822.0 | 8,104.2 | 230.3 | TD at 19791.2 |

| Checked By: | Approved By: | Date: | |
|-----------------|--------------|-------|--|
| J 01.00.100 27. | | | |

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

01/26/2010

State of New Mexico Energy, Minerals and Natural Resources Department

Submit Original to Appropriate District Office

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505

GAS CAPTURE PLAN

| Dai | te: <u>01/26/2018</u> | |
|-------------|---------------------------------|---|
| \boxtimes | Original | Operator & OGRID No.: Kaiser-Francis Oil Company, 12361 |
| | Amended - Reason for Amendment: | |
| | | |

This Gas Capture Plan outlines actions to be taken by the Operator to reduce well/production facility flaring/venting for new completion (new drill, recomplete to new zone, re-frac) activity.

Note: Form C-129 must be submitted and approved prior to exceeding 60 days allowed by Rule (Subsection A of 19.15.18.12 NMAC).

Well(s)/Production Facility - Name of facility

The well(s) that will be located at the production facility are shown in the table below.

| Well Name | API | Well Location (ULSTR) | Footages | Expected MCF/D | Flared or Vented | Comments |
|---------------------------|-----|-----------------------|----------|----------------|---------------------|----------|
| Bell Lake Unit North 227H | | 6-23S-34E | | 2000 | 0 | |
| Bell Lake Unit North 228H | | 6-23S-34E | | 2000 | 0 | |
| Bell Lake Unit North 327H | | 6-23S-34E | | 2000 | 0 | |
| Bell Lake Unit North 328H | | 6-23S-34E | | 2000 | 0 | |
| Bell Lake Unit North 427H | | 6-23S-34E | | 2000 | 0 | |
| Bell Lake Unit North 428H | | 6-23S-34E | | 2000 | 0 | |

Gathering System and Pipeline Notification

Well(s) will be connected to a production facility after flowback operations are complete, if gas transporter system is in place. The gas produced from production facility is dedicated to <u>Targa</u> and will be connected to <u>Targa</u> low/high pressure gathering system located in <u>Lea_ County</u>, New Mexico. It will require <u>__11,000'</u> of pipeline to connect the facility to low/high pressure gathering system. <u>Kaiser-Francis Oil Company</u> provides (periodically) to <u>Targa</u> a drilling, completion and estimated first production date for wells that are scheduled to be drilled in the foreseeable future. In addition, <u>Kaiser-Francis Oil Company</u> and <u>Targa</u> have periodic conference calls to discuss changes to drilling and completion schedules. Gas from these wells will be processed at <u>Targa</u> Processing Plant located in Sec. <u>__36_, Twn.___198__, Rng.__36E, __Lea___</u> County, New Mexico. The actual flow of the gas will be based on compression operating parameters and gathering system pressures.

Flowback Strategy

After the fracture treatment/completion operations, well(s) will be produced to temporary production tanks and gas will be flared or vented. During flowback, the fluids and sand content will be monitored. When the produced fluids contain minimal sand, the wells will be turned to production facilities. Gas sales should start as soon as the wells start flowing through the production facilities, unless there are operational issues on <u>Targa</u> system at that time. Based on current information, it is <u>Kaiser-Francis Oil Company's</u> belief the system can take this gas upon completion of the well(s).

Safety requirements during cleanout operations from the use of underbalanced air cleanout systems may necessitate that sand and non-pipeline quality gas be vented and/or flared rather than sold on a temporary basis.

Alternatives to Reduce Flaring

Below are alternatives considered from a conceptual standpoint to reduce the amount of gas flared.

- Power Generation On lease
 - o Only a portion of gas is consumed operating the generator, remainder of gas will be flared
- Compressed Natural Gas On lease
 - o Gas flared would be minimal, but might be uneconomical to operate when gas volume declines
- NGL Removal On lease
 - o Plants are expensive, residue gas is still flared, and uneconomical to operate when gas volume declines